

68992

Access DB# _____

Point of Contact:
Thomas G. Larson, Ph.D.
703-308-7309
CM1, Rm. 6 B 01

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: GAO QUN LI Examiner #: 78206 Date: 06/17/2006
Art Unit: 1649 Phone Number 30 5-1695 Serial Number: 09/8291031
Mail Box and Bldg/Room Location: CM1, 8512 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Reversal of viral-induced systematic shock and respiratory distress

Inventors (please provide full names): blockage of the lymphotaxin beta p.
Browning, Jeffrey. Pullelli, Marganne, Ahmed R.

Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

please search citation 1-8. directed to the
method for inducing an anti-viral response by
using an agent including an antibody or fusion protein
lymphotoxin- β receptor.

Thanks

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CM1, Rm. 6 B 01

STAFF USE ONLY		Type of Search	Vendors and cost where applicable
Searcher: <u>Larsen</u>	NA Sequence (#) _____	STN <u>730</u>	
Searcher Phone #: <u>8-7309</u>	AA Sequence (#) _____	Dialog _____	
Searcher Location: <u>6B01</u>	Structure (#) _____	Questel/Orbit _____	
Date Searcher Picked Up: <u>6/18</u>	Bibliographic <u>X</u>	Dr.Link _____	
Date Completed: <u>6/24</u>	Litigation _____	Lexis/Nexis _____	
Searcher Prep & Review Time: <u>30</u>	Fulltext _____	Sequence Systems _____	
Clerical Prep Time: _____	Patent Family _____	WWW/Internet _____	
Online Time: <u>302</u>	Other _____	Other (specify) _____	

=> file medline

FILE 'MEDLINE' ENTERED AT 17:28:27 ON 24 JUN 2002

FILE LAST UPDATED: 23 JUN 2002 (20020623/UP). FILE COVERS 1958 TO DATE.

On June 9, 2002, MEDLINE was reloaded. See HELP RLOAD for details.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2002 vocabulary. Enter HELP THESAURUS for details.

THIS FILE CONTAINS CAS REGISTRY NUMBERS FOR EASY AND ACCURATE SUBSTANCE IDENTIFICATION.

=> d que L18

L1	362	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L10	9229	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	RECEPTORS, TUMOR NECROSIS FACTOR+PFT/CT
L12	93	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L10 (L) AI/CT
L14	6	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L1 AND L12
L15	518045	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	ANTIBODIES+NT, PFT/CT
L16	3	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L14 AND L15
L17	108001	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	SIGNAL TRANSDUCTION+NT, PFT/CT
L18	2	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L16 AND L17

AI antagonist & inhibitors subheading

=> d que L26

L1	362	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L3	1876	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN+PFT/CT
L10	9229	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	RECEPTORS, TUMOR NECROSIS FACTOR+PFT/CT
L23	501	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L3 (L) (CH. OR TH. OR PD.)/CT
L24	582	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L10 (L) (CH. OR TH. OR PD.)/CT
L25	10	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L23 AND L24
L26	1	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L25 AND L1

CH - Chemistry subheadings
TH - Therapeutic subheadings
PD - Pharmacological subheadings

=> d que L33

L1	362	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L3	1876	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN+PFT/CT
L10	9229	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	RECEPTORS, TUMOR NECROSIS FACTOR+PFT/CT
L23	501	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L3 (L) (CH. OR TH. OR PD.)/CT
L24	582	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L10 (L) (CH. OR TH. OR PD.)/CT
L27	1073	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L23 OR L24
L28	448	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L27/MAJ
L29	25	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L28 AND L1
L32	154156	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	ANTIVIRAL AGENTS+NT, PFT/CT
L33	1	SEA	FILE=MEDLINE	ABB=ON	PLU=ON	L29 AND L32

major focus of document

=> d que L41

L1	362	SEA FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L3	1876	SEA FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN+PFT/CT
L8	9176	SEA FILE=MEDLINE	ABB=ON	PLU=ON	ANTILYMPHOCYTE SERUM+PFT/CT
L10	9229	SEA FILE=MEDLINE	ABB=ON	PLU=ON	RECEPTORS, TUMOR NECROSIS FACTOR+PFT/CT
L23	501	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L3 (L) (CH. OR TH. OR PD.)/CT
L24	582	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L10 (L) (CH. OR TH. OR PD.)/CT
L27	1073	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L23 OR L24
L36	9	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L27 AND L8
L37	527	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L3 (L) (TU. OR TH. OR PD. OR CH.)/CT
L38	805	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L10 (L) (TU. OR TH. OR PD. OR CH.)/CT
L39	1321	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L37 OR L38
L40	9	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L39 AND L36
L41	0	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L40 AND L1

=> d que L44

L1	362	SEA FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L3	1876	SEA FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN+PFT/CT
L10	9229	SEA FILE=MEDLINE	ABB=ON	PLU=ON	RECEPTORS, TUMOR NECROSIS FACTOR+PFT/CT
L15	518045	SEA FILE=MEDLINE	ABB=ON	PLU=ON	ANTIBODIES+NT,PFT/CT
L37	527	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L3 (L) (TU. OR TH. OR PD. OR CH.)/CT
L38	805	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L10 (L) (TU. OR TH. OR PD. OR CH.)/CT
L39	1321	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L37 OR L38
L42	458	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L39 AND L15
L43	15	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L42 AND L1
L44	3	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L43 AND (VIRUS OR VIRAL?)

*TU Therapeutic
use
subheading*

=> d que L47

L1	362	SEA FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L2	112	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L1 (3A) RECEPTOR
L3	1876	SEA FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN+PFT/CT
L10	9229	SEA FILE=MEDLINE	ABB=ON	PLU=ON	RECEPTORS, TUMOR NECROSIS FACTOR+PFT/CT
L37	527	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L3 (L) (TU. OR TH. OR PD. OR CH.)/CT
L38	805	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L10 (L) (TU. OR TH. OR PD. OR CH.)/CT
L39	1321	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L37 OR L38
L45	117	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L2 OR (LYMPHOTOXIN BETA-SPECIF IC RECEPTOR OR LT.BETA.R OR LT-.BETA.R OR LT-.BETA-R)
L46	12	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L45 (5A) (ANTI OR ANTIBOD? OR IMMUNOGLOB? OR SOLUBL? OR BLOCK?)
L47	5	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L39 AND L46

=> d que L50

L1	362	SEA FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L2	112	SEA FILE=MEDLINE	ABB=ON	PLU=ON	L1 (3A) RECEPTOR
L3	1876	SEA FILE=MEDLINE	ABB=ON	PLU=ON	LYMPHOTOXIN+PFT/CT
L10	9229	SEA FILE=MEDLINE	ABB=ON	PLU=ON	RECEPTORS, TUMOR NECROSIS

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                FACTOR+PFT/CT
L37      527 SEA FILE=MEDLINE ABB=ON PLU=ON L3 (L) (TU. OR TH. OR PD. OR
                CH.)/CT
L38      805 SEA FILE=MEDLINE ABB=ON PLU=ON L10 (L) (TU. OR TH. OR PD. OR
                CH.)/CT
L39      1321 SEA FILE=MEDLINE ABB=ON PLU=ON L37 OR L38
L45      117 SEA FILE=MEDLINE ABB=ON PLU=ON L2 OR (LYMPHOTOXIN BETA-SPECIF
                IC RECEPTOR OR LT.BETA.R OR LT-.BETA.R OR LT-.BETA-R)
L49      5 SEA FILE=MEDLINE ABB=ON PLU=ON L45 (3A) (IG? OR IMMUNOGLOB?)
                (3A) (FUSION (W) (PROTEIN OR PEPTIDE))
L50      1 SEA FILE=MEDLINE ABB=ON PLU=ON L39 AND L49

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=> d que L65

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L1      362 SEA FILE=MEDLINE ABB=ON PLU=ON LYMPHOTOXIN (2A) BETA
L3      1876 SEA FILE=MEDLINE ABB=ON PLU=ON LYMPHOTOXIN+PFT/CT
L10     9229 SEA FILE=MEDLINE ABB=ON PLU=ON RECEPTORS, TUMOR NECROSIS
                FACTOR+PFT/CT
L37     527 SEA FILE=MEDLINE ABB=ON PLU=ON L3 (L) (TU. OR TH. OR PD. OR
                CH.)/CT
L38     805 SEA FILE=MEDLINE ABB=ON PLU=ON L10 (L) (TU. OR TH. OR PD. OR
                CH.)/CT
L39     1321 SEA FILE=MEDLINE ABB=ON PLU=ON L37 OR L38
L56     128791 SEA FILE=MEDLINE ABB=ON PLU=ON DNA VIRUSES+NT,PFT/CT
L57     188948 SEA FILE=MEDLINE ABB=ON PLU=ON RNA VIRUSES+NT,PFT/CT
L58     307991 SEA FILE=MEDLINE ABB=ON PLU=ON VERTEBRATE VIRUSES+NT,PFT/CT
L59     307991 SEA FILE=MEDLINE ABB=ON PLU=ON L56 OR L57 OR L58
L63     616 SEA FILE=MEDLINE ABB=ON PLU=ON L39/MAJ
L64     30 SEA FILE=MEDLINE ABB=ON PLU=ON L63 AND L59
L65     4 SEA FILE=MEDLINE ABB=ON PLU=ON L64 AND L1

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=> s l18 or l26 or l33 or l44 or l47 or l50 or l65

L174 10 L18 OR L26 OR L33 OR L44 OR L47 OR L50 OR L65

=> file embase

FILE 'EMBASE' ENTERED AT 17:32:36 ON 24 JUN 2002

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FILE COVERS 1974 TO 20 Jun 2002 (20020620/ED)

EMBASE has been reloaded. Enter HELP RLOAD for details.

*This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d que L79

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L67     2232 SEA FILE=EMBASE ABB=ON PLU=ON LYMPHOTOXIN+PFT/CT
L68     3301 SEA FILE=EMBASE ABB=ON PLU=ON TUMOR NECROSIS FACTOR RECEPTOR+
                PFT/CT
L69     5389 SEA FILE=EMBASE ABB=ON PLU=ON L67 OR L68
L70     301 SEA FILE=EMBASE ABB=ON PLU=ON LYMPHOTOXIN (2A) BETA
L72     281191 SEA FILE=EMBASE ABB=ON PLU=ON VIRUS+PFT/CT OR DNA VIRUS+NT,PF
                T/CT OR RNA VIRUS+NT,PFT/CT
L76     345967 SEA FILE=EMBASE ABB=ON PLU=ON ANTIBODY+NT,PFT/CT OR IMMUNOGLO
                BULIN+NT,PFT/CT
L77     993 SEA FILE=EMBASE ABB=ON PLU=ON L69 AND L76
L78     34 SEA FILE=EMBASE ABB=ON PLU=ON L77 AND L70
L79     4 SEA FILE=EMBASE ABB=ON PLU=ON L78 AND L72

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=> d que L84

L67	2232	SEA FILE=EMBASE ABB=ON	PLU=ON	LYMPHOTOXIN+PFT/CT
L68	3301	SEA FILE=EMBASE ABB=ON	PLU=ON	TUMOR NECROSIS FACTOR RECEPTOR+PFT/CT
L69	5389	SEA FILE=EMBASE ABB=ON	PLU=ON	L67 OR L68
L70	301	SEA FILE=EMBASE ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L72	281191	SEA FILE=EMBASE ABB=ON	PLU=ON	VIRUS+PFT/CT OR DNA VIRUS+NT, PFT/CT OR RNA VIRUS+NT, PFT/CT
L80	301	SEA FILE=EMBASE ABB=ON	PLU=ON	L69 (L) (AD OR DO OR DT OR PD OR PK) /CT
L81	17	SEA FILE=EMBASE ABB=ON	PLU=ON	L80 AND L70
L84	1	SEA FILE=EMBASE ABB=ON	PLU=ON	L81 AND L72

AD - Drug administration
 DO - Drug Doseage
 DT - Drug Therapy
 PD - Pharmacology
 PK - Pharmacokinetics

=> d que L85

L67	2232	SEA FILE=EMBASE ABB=ON	PLU=ON	LYMPHOTOXIN+PFT/CT
L68	3301	SEA FILE=EMBASE ABB=ON	PLU=ON	TUMOR NECROSIS FACTOR RECEPTOR+PFT/CT
L69	5389	SEA FILE=EMBASE ABB=ON	PLU=ON	L67 OR L68
L70	301	SEA FILE=EMBASE ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L76	345967	SEA FILE=EMBASE ABB=ON	PLU=ON	ANTIBODY+NT, PFT/CT OR IMMUNOGLOBULIN+NT, PFT/CT
L80	301	SEA FILE=EMBASE ABB=ON	PLU=ON	L69 (L) (AD OR DO OR DT OR PD OR PK) /CT
L81	17	SEA FILE=EMBASE ABB=ON	PLU=ON	L80 AND L70
L85	1	SEA FILE=EMBASE ABB=ON	PLU=ON	L81 AND L76

=> d que L91

L68	3301	SEA FILE=EMBASE ABB=ON	PLU=ON	TUMOR NECROSIS FACTOR RECEPTOR+PFT/CT
L70	301	SEA FILE=EMBASE ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L86	115	SEA FILE=EMBASE ABB=ON	PLU=ON	TUMOR NECROSIS FACTOR BINDING PROTEIN/CT
L87	4	SEA FILE=EMBASE ABB=ON	PLU=ON	L86 AND L70
L88	3	SEA FILE=EMBASE ABB=ON	PLU=ON	L87 AND L68
L91	1	SEA FILE=EMBASE ABB=ON	PLU=ON	L88 AND HUMAN/CT

=> d que L93

L70	301	SEA FILE=EMBASE ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L92	3	SEA FILE=EMBASE ABB=ON	PLU=ON	TUMOR NECROSIS FACTOR RECEPTOR BLOCKING AGENT/CT
L93	0	SEA FILE=EMBASE ABB=ON	PLU=ON	L70 AND L92

=> d que L95

L70	301	SEA FILE=EMBASE ABB=ON	PLU=ON	LYMPHOTOXIN (2A) BETA
L94	2	SEA FILE=EMBASE ABB=ON	PLU=ON	TUMOR NECROSIS FACTOR RECEPTOR DERIVATIVE/CT
L95	0	SEA FILE=EMBASE ABB=ON	PLU=ON	L70 AND L94

=> d que L99

L99	1	SEA FILE=EMBASE ABB=ON	PLU=ON	LYMPHOTOXIN BETA RECEPTOR IMMUNOGLOBULIN FUSION PROTEIN/CT
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=> d que L101

L1 362 SEA FILE=MEDLINE ABB=ON PLU=ON LYMPHOTOXIN (2A) BETA
 L2 112 SEA FILE=MEDLINE ABB=ON PLU=ON L1 (3A) RECEPTOR
 L45 117 SEA FILE=MEDLINE ABB=ON PLU=ON L2 OR (LYMPHOTOXIN BETA-SPECIF
 IC RECEPTOR OR LT.BETA.R OR LT-.BETA.R OR LT-.BETA-R)
 L67 2232 SEA FILE=EMBASE ABB=ON PLU=ON LYMPHOTOXIN+PFT/CT
 L68 3301 SEA FILE=EMBASE ABB=ON PLU=ON TUMOR NECROSIS FACTOR RECEPTOR+
 PFT/CT
 L69 5389 SEA FILE=EMBASE ABB=ON PLU=ON L67 OR L68
 L80 301 SEA FILE=EMBASE ABB=ON PLU=ON L69 (L) (AD OR DO OR DT OR PD
 OR PK)/CT
 L100 9 SEA FILE=EMBASE ABB=ON PLU=ON L45 (3A) FUSION
 L101 0 SEA FILE=EMBASE ABB=ON PLU=ON L80 AND L100

=> s l79 or l84 or l85 or l91 or l99

L175 8 L79 OR L84 OR L85 OR L91 OR L99

=> file hcaplus

FILE 'HCAPLUS' ENTERED AT 17:42:40 ON 24 JUN 2002

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FILE COVERS 1907 - 24 Jun 2002 VOL 136 ISS 26

FILE LAST UPDATED: 21 Jun 2002 (20020621/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

=> d que L119

L103 177 SEA FILE=HCAPLUS ABB=ON PLU=ON "LYMPHOTOXIN (L) .BETA." +PFT/C
 T
 L104 86 SEA FILE=HCAPLUS ABB=ON PLU=ON "LYMPHOKINE RECEPTORS (L)
 .BETA.-LYMPHOTOXIN"+PFT/CT
 L105 48 SEA FILE=HCAPLUS ABB=ON PLU=ON L103 (L) (THU OR BAC OR DMA
 OR PAC OR PKT)/RL
 L106 17 SEA FILE=HCAPLUS ABB=ON PLU=ON L104 (L) (THU OR BAC OR DMA
 OR PAC OR PKT)/RL
 L116 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L105 AND L106
 L117 75234 SEA FILE=HCAPLUS ABB=ON PLU=ON SIGNAL TRANSDUCTION+NT, PFT/CT
 L118 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L116 AND L117
 L119 1 SEA FILE=HCAPLUS ABB=ON PLU=ON L118 AND DRUGS/CT

Thu - Therapeutic use
Bac - Biological activity
DMA - Drug mechanism of action
PAC - Pharmacological activity
PK - Pharmacokinetics

=> d que L129

L103 177 SEA FILE=HCAPLUS ABB=ON PLU=ON "LYMPHOTOXIN (L) .BETA."+PFT/CT
T

L104 86 SEA FILE=HCAPLUS ABB=ON PLU=ON "LYMPHOKINE RECEPTORS (L)
.BETA.-LYMPHOTOXIN"+PFT/CT

L124 70144 SEA FILE=HCAPLUS ABB=ON PLU=ON IMMUNOGLOBULINS/CT

L126 234 SEA FILE=HCAPLUS ABB=ON PLU=ON L103 OR L104

L127 29 SEA FILE=HCAPLUS ABB=ON PLU=ON L126 AND VIRUS/OBI

L128 9351 SEA FILE=HCAPLUS ABB=ON PLU=ON L124 (L) (THU OR BAC OR DMA
OR PAC OR PKT)/RL

L129 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L127 AND L128

=> d que L132

L103 177 SEA FILE=HCAPLUS ABB=ON PLU=ON "LYMPHOTOXIN (L) .BETA."+PFT/CT
T

L104 86 SEA FILE=HCAPLUS ABB=ON PLU=ON "LYMPHOKINE RECEPTORS (L)
.BETA.-LYMPHOTOXIN"+PFT/CT

L126 234 SEA FILE=HCAPLUS ABB=ON PLU=ON L103 OR L104

L127 29 SEA FILE=HCAPLUS ABB=ON PLU=ON L126 AND VIRUS/OBI

L130 195688 SEA FILE=HCAPLUS ABB=ON PLU=ON ANTIBODIES+NT/CT

L131 31910 SEA FILE=HCAPLUS ABB=ON PLU=ON L130 (L) (THU OR BAC OR DMA
OR PAC OR PKT)/RL

L132 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L127 AND L131

=> d que L134

L103 177 SEA FILE=HCAPLUS ABB=ON PLU=ON "LYMPHOTOXIN (L) .BETA."+PFT/CT
T

L104 86 SEA FILE=HCAPLUS ABB=ON PLU=ON "LYMPHOKINE RECEPTORS (L)
.BETA.-LYMPHOTOXIN"+PFT/CT

L126 234 SEA FILE=HCAPLUS ABB=ON PLU=ON L103 OR L104

L127 29 SEA FILE=HCAPLUS ABB=ON PLU=ON L126 AND VIRUS/OBI

L133 10659 SEA FILE=HCAPLUS ABB=ON PLU=ON "FUSION PROTEINS (CHIMERIC
PROTEINS)"+PFT/CT

L134 3 SEA FILE=HCAPLUS ABB=ON PLU=ON L127 AND L133

=> d que L139

L103 177 SEA FILE=HCAPLUS ABB=ON PLU=ON "LYMPHOTOXIN (L) .BETA."+PFT/CT
T

L104 86 SEA FILE=HCAPLUS ABB=ON PLU=ON "LYMPHOKINE RECEPTORS (L)
.BETA.-LYMPHOTOXIN"+PFT/CT

L124 70144 SEA FILE=HCAPLUS ABB=ON PLU=ON IMMUNOGLOBULINS/CT

L126 234 SEA FILE=HCAPLUS ABB=ON PLU=ON L103 OR L104

L128 9351 SEA FILE=HCAPLUS ABB=ON PLU=ON L124 (L) (THU OR BAC OR DMA
OR PAC OR PKT)/RL

L130 195688 SEA FILE=HCAPLUS ABB=ON PLU=ON ANTIBODIES+NT/CT

L131 31910 SEA FILE=HCAPLUS ABB=ON PLU=ON L130 (L) (THU OR BAC OR DMA
OR PAC OR PKT)/RL

L133 10659 SEA FILE=HCAPLUS ABB=ON PLU=ON "FUSION PROTEINS (CHIMERIC
PROTEINS)"+PFT/CT

L136 3838 SEA FILE=HCAPLUS ABB=ON PLU=ON L133 (L) (THU OR BAC OR DMA
OR PAC OR PKT)/RL

L137 10 SEA FILE=HCAPLUS ABB=ON PLU=ON L126 AND L136

L138 8 SEA FILE=HCAPLUS ABB=ON PLU=ON L137 AND L131

L139 7 SEA FILE=HCAPLUS ABB=ON PLU=ON L128 AND L138

=> d que L143

```
L103      177 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "LYMPHOTOXIN (L) .BETA."+PFT/C
          T
L104      86 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "LYMPHOKINE RECEPTORS (L)
          .BETA.-LYMPHOTOXIN"+PFT/CT
L126      234 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L103 OR L104
L141      33586 SEA FILE=HCAPLUS ABB=ON  PLU=ON  ANTIVIRAL AGENTS+NT,PFT/CT
L142      3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L126 AND L141
L143      2 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L142 NOT APOPTOSIS-INDUCING
          MOLECULE II/TI
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=> d que L148

```
L103      177 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "LYMPHOTOXIN (L) .BETA."+PFT/C
          T
L104      86 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "LYMPHOKINE RECEPTORS (L)
          .BETA.-LYMPHOTOXIN"+PFT/CT
L126      234 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L103 OR L104
L144      76575 SEA FILE=HCAPLUS ABB=ON  PLU=ON  INFECTION+NT,PFT/CT
L146      60 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L126 (L) (THU OR BAC OR DMA
          OR PAC OR PKT)/RL
L147      5 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L146 AND L144
L148      1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L147 AND IMMUNITY+NT,PFT/CT
```

=> d que L150

```
L103      177 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "LYMPHOTOXIN (L) .BETA."+PFT/C
          T
L104      86 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "LYMPHOKINE RECEPTORS (L)
          .BETA.-LYMPHOTOXIN"+PFT/CT
L126      234 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L103 OR L104
L146      60 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L126 (L) (THU OR BAC OR DMA
          OR PAC OR PKT)/RL
L149      10125 SEA FILE=HCAPLUS ABB=ON  PLU=ON  "SHOCK (CIRCULATORY COLLAPSE)"
          +NT,PFT/CT
L150      2 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L146 AND L149
```

=> S l119 or l129 or l132 or l134 or l139 or l143 or l148 or l150

L176 11 L119 OR L129 OR L132 OR L134 OR L139 OR L143 OR L148 OR L150

=> FIL WPIDS

FILE 'WPIDS' ENTERED AT 17:46:55 ON 24 JUN 2002

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FILE LAST UPDATED: 21 JUN 2002

<20020621/UP>

MOST RECENT DERWENT UPDATE

200239

<200239/DW>

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>>> The BATCH option for structure searches has been
enabled in WPINDEX/WPIDS and WPIX >>>

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GUIDES, PLEASE VISIT:
http://www.derwent.com/userguides/dwpi_guide.html <<<

=> d que L159

L151	80	SEA FILE=WPIDS ABB=ON	PLU=ON	LYMPHOTOXIN (3A) BETA OR LTB OR LT.BETA. OR LT-.BETA.
L152	38278	SEA FILE=WPIDS ABB=ON	PLU=ON	VIRUS OR VIRAL?
L153	16	SEA FILE=WPIDS ABB=ON	PLU=ON	L151 AND L152
L154	991230	SEA FILE=WPIDS ABB=ON	PLU=ON	ANTAG? OR INHIBIT? OR BLOCK? OR REVERS?
L155	10	SEA FILE=WPIDS ABB=ON	PLU=ON	L153 AND L154
L159	5	SEA FILE=WPIDS ABB=ON	PLU=ON	L155 AND (VIRUS OR VIRAL? OR INFECT?)/TI

=> d que L163

L161	166	SEA FILE=WPIDS ABB=ON	PLU=ON	LYMPHOTOXIN BETA-SPECIFIC RECEPTOR OR TNF-.BETA. RECEPTOR OR TUMOR NECROSIS FACTOR RECEPTOR OR LT-.BETA.R OR LT-.BETA.-R OR LT.BETA.R OR TNF-.BETA .R OR TNF-R OR TNFR
L162	14	SEA FILE=WPIDS ABB=ON	PLU=ON	L161 (3A) SOLUBL?
L163	1	SEA FILE=WPIDS ABB=ON	PLU=ON	L162 AND (VIRUS OR VIRAL?)

=> d que L165

L151	80	SEA FILE=WPIDS ABB=ON	PLU=ON	LYMPHOTOXIN (3A) BETA OR LTB OR LT.BETA. OR LT-.BETA.
L161	166	SEA FILE=WPIDS ABB=ON	PLU=ON	LYMPHOTOXIN BETA-SPECIFIC RECEPTOR OR TNF-.BETA. RECEPTOR OR TUMOR NECROSIS FACTOR RECEPTOR OR LT-.BETA.R OR LT-.BETA.-R OR LT.BETA.R OR TNF-.BETA .R OR TNF-R OR TNFR
L164	4	SEA FILE=WPIDS ABB=ON	PLU=ON	L161 (3A) (FUSION OR CHIMERIC)
L165	1	SEA FILE=WPIDS ABB=ON	PLU=ON	L151 AND L164

=> d que L169

L161	166	SEA FILE=WPIDS ABB=ON	PLU=ON	LYMPHOTOXIN BETA-SPECIFIC RECEPTOR OR TNF-.BETA. RECEPTOR OR TUMOR NECROSIS FACTOR RECEPTOR OR LT-.BETA.R OR LT-.BETA.-R OR LT.BETA.R OR TNF-.BETA .R OR TNF-R OR TNFR
L168	2	SEA FILE=WPIDS ABB=ON	PLU=ON	L161 (3A) (IG? OR IMMUNOGLOB?) (5A) (FUSION OR CHIMERIC)
L169	1	SEA FILE=WPIDS ABB=ON	PLU=ON	L168 NOT EXTRACELLULAR RECOVERY/ TI

=> d que L173

L151	80	SEA FILE=WPIDS ABB=ON	PLU=ON	LYMPHOTOXIN (3A) BETA OR LTB OR LT.BETA. OR LT-.BETA.
L152	38278	SEA FILE=WPIDS ABB=ON	PLU=ON	VIRUS OR VIRAL?
L153	16	SEA FILE=WPIDS ABB=ON	PLU=ON	L151 AND L152
L171	48665	SEA FILE=WPIDS ABB=ON	PLU=ON	ANTIBOD? OR ANTI BOD? OR IMMUNOGLOB?
L172	9	SEA FILE=WPIDS ABB=ON	PLU=ON	L153 AND L171
L173	5	SEA FILE=WPIDS ABB=ON	PLU=ON	L172 AND (VIRUS OR INFECTION)/TI

=> s l159 or l163 or l169 or l173
L177 7 L159 OR L163 OR L169 OR L173

=> dup rem L174 L175 L176 L177
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FILE 'EMBASE' ENTERED AT 17:48:54 ON 24 JUN 2002
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PROCESSING COMPLETED FOR L174
PROCESSING COMPLETED FOR L175
PROCESSING COMPLETED FOR L176
PROCESSING COMPLETED FOR L177
L178 30 DUP REM L174 L175 L176 L177 (6 DUPLICATES REMOVED)

=> d ibib ab ct 1-30

L178 ANSWER 1 OF 30 HCAPLUS COPYRIGHT 2002 ACS
ACCESSION NUMBER: 2002:293705 HCAPLUS
DOCUMENT NUMBER: 136:324074
TITLE: Humanized anti-lymphotoxin .beta. receptor
(LT-.beta.-R) antibodies for treating tumor
INVENTOR(S): Garber, Ellen; Lyne, Paul; Saldanha, Jose W.
PATENT ASSIGNEE(S): Biogen, Inc., USA
SOURCE: PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002030986	A2	20020418	WO 2001-US32140	20011012
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRIORITY APPLN. INFO.:			US 2000-240285P	P 20001013
			US 2001-275289P	P 20010313
			US 2001-299987P	P 20010621
AB LT-.alpha.-R-specific humanized murine CBE11 antibodies and fragments are provided. The humanized antibodies of this invention are linked to an immunotoxin (e.g. ricin A chain of Pseudomonas toxin), chemotherapeutic agent (e.g. adriamycin, 5-FU, vinblastine, actinomycin D, etoposide,				

cisplatin, methotrexate and doxorubicin), a radioisotope, or a cytotoxic factor (e.g. TNF-.alpha., TNF-.beta., IL-1, INF-.gamma., and IL-2) for treating cancer in human patients.

CT Ricins
 CT **Immunoglobulins**
 CT **Immunoglobulins**
 CT **Immunoglobulins**
 CT Hybridoma
 CT Hybridoma
 CT **Immunoglobulins**
 CT **Immunoglobulins**
 CT **Immunoglobulins**
 CT **Immunoglobulins**
 CT **Immunoglobulins**
 CT **Immunoglobulins**
 CT Toxins
 CT Drug delivery systems
 CT Radionuclides, biological studies
 CT **Immunoglobulins**
 CT **Immunoglobulins**
 CT Antitumor agents
 CT Chemotherapy
 CT DNA sequences
 CT Human
 CT Mammal (Mammalia)
 CT Molecular cloning
 CT Protein sequences
 CT **Antibodies**
 CT Cytokines
 CT Interleukin 1
 CT Interleukin 2
 CT **Lymphotoxin**
 CT Nucleic acids
 CT Tumor necrosis factors
 CT **Fusion proteins (chimeric proteins)**
 CT Drug delivery systems
 CT Drug delivery systems
 CT **Immunoglobulins**
 CT **Antibodies**
 CT Pseudomonas
 CT **Lymphokine receptors**
 CT Interferons

L178 ANSWER 2 OF 30 MEDLINE
 ACCESSION NUMBER: 2002052009 MEDLINE
 DOCUMENT NUMBER: 21636514 PubMed ID: 11777992
 TITLE: Nonmitogenic CD3 antibody reverses **virally**
 induced (rat insulin promoter-lymphocytic choriomeningitis
virus) autoimmune diabetes without impeding
viral clearance.
 AUTHOR: von Herrath Matthias G; Coon Bryan; Wolfe Tom; Chatenoud
 Lucienne
 CORPORATE SOURCE: Department of Immune Regulation, La Jolla Institute for
 Allergy and Immunology, San Diego, CA 92121, USA..
 matthias@liai.org
 CONTRACT NUMBER: AI44451 (NIAID)
 DK510791 (NIDDK)
 U19 AI51973 (NIAID)
 SOURCE: JOURNAL OF IMMUNOLOGY, (2002 Jan 15) 168 (2) 933-41.
 Journal code: 2985117R. ISSN: 0022-1767.

PUB. COUNTRY: United States
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
 ENTRY MONTH: 200201
 ENTRY DATE: Entered STN: 20020125
 Last Updated on STN: 20020201
 Entered Medline: 20020131

AB Treatment with nonmitogenic CD3 Ab reverses established autoimmune diabetes in nonobese diabetic mice by restoring self-tolerance, and is currently under clinical evaluation in patients presenting recent onset type I diabetes. Due to the immunosuppressive potential of this strategy, it was relevant to explore how this treatment would influence the outcome of concomitant viral infections. In this study, we used a transgenic model of virally induced autoimmune diabetes (rat insulin promoter-lymphocytic choriomeningitis virus) that allows for more precise tracking of the autoaggressive response and choice of the time point for initiation of autoimmunity. CD3 was most effective during a clearly defined prediabetic phase and prevented up to 100% of diabetes by drastically lowering activation of autoaggressive CD8 lymphocytes and their production of inflammatory cytokines. Interestingly, reversion of established disease could be achieved as well, when nonmitogenic CD3 was administered late during pathogenesis to overtly diabetic recipients. Most importantly, competence to clear viral infections was maintained. Thus, administration of nonmitogenic CD3 prevents diabetes by sufficient systemic reduction of (auto)aggressive lymphocytes, but without compromising antiviral immune competence.

CT Check Tags: Animal; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.
 Adjuvants, Immunologic: PD, pharmacology
 Adoptive Transfer

Antibodies, Monoclonal: ME, metabolism

***Antibodies, Monoclonal: TU, therapeutic use**

***Antigens, CD3: IM, immunology**

Arenaviridae Infections: IM, immunology

Arenaviridae Infections: PC, prevention & control

Arenaviridae Infections: VI, virology

Binding Sites, Antibody

CD4-Positive T-Lymphocytes: IM, immunology

CD4-Positive T-Lymphocytes: ME, metabolism

Cell Division: IM, immunology

Cell Movement: IM, immunology

Diabetes Mellitus, Insulin-Dependent: IM, immunology

Diabetes Mellitus, Insulin-Dependent: PA, pathology

***Diabetes Mellitus, Insulin-Dependent: PC, prevention & control**

***Diabetes Mellitus, Insulin-Dependent: VI, virology**

Immunoglobulins, Fab: ME, metabolism

Immunoglobulins, Fab: PD, pharmacology

***Insulin: GE, genetics**

Insulin: IM, immunology

Interleukin-4: BI, biosynthesis

Islets of Langerhans: IM, immunology

Islets of Langerhans: PA, pathology

Lymphocyte Count

Lymphocyte Transformation: IM, immunology

Lymphocytes: CY, cytology

Lymphocytes: IM, immunology

***Lymphocytic choriomeningitis virus: GE, genetics**

Lymphocytic choriomeningitis virus: IM, immunology

Lymphotoxin: AI, antagonists & inhibitors

Membrane Proteins: AI, antagonists & inhibitors

Mice
 Mice, Inbred C57BL
 Mice, Transgenic
 Mitogens: PD, pharmacology
 *Promoter Regions (Genetics): IM, immunology
 Rats
 Receptors, Fc: ME, metabolism
 Spleen: CY, cytology
 Spleen: IM, immunology
 Spleen: ME, metabolism
 Spleen: TR, transplantation
 Tumor Necrosis Factor: AI, antagonists & inhibitors
Viral Proteins: GE, genetics

L178 ANSWER 3 OF 30 MEDLINE
 ACCESSION NUMBER: 2002134149 MEDLINE
 DOCUMENT NUMBER: 21843386 PubMed ID: 11854328
 TITLE: Blockade of LIGHT/LTbeta and CD40 signaling induces
 allospecific T cell anergy, preventing graft-versus-host
 disease.
 AUTHOR: Tamada Koji; Tamura Hideto; Flies Dallas; Fu Yang-Xin;
 Celis Esteban; Pease Larry R; Blazar Bruce R; Chen Lieping
 CORPORATE SOURCE: Department of Immunology, Mayo Clinic, Rochester, Minnesota
 55905, USA.
 CONTRACT NUMBER: AI-34495 (NIAID)
 AI-35225 (NIAID)
 CA-79915 (NCI)
 CA85721 (NCI)
 SOURCE: JOURNAL OF CLINICAL INVESTIGATION, (2002 Feb) 109 (4)
 549-57.
 Journal code: 7802877. ISSN: 0021-9738.
 PUB. COUNTRY: United States
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
 ENTRY MONTH: 200203
 ENTRY DATE: Entered STN: 20020301
 Last Updated on STN: 20020322
 Entered Medline: 20020321
 AB Previous studies have shown that blockade of LIGHT, a T cell costimulatory
 molecule belonging to the TNF superfamily, by **soluble**
lymphotoxin beta receptor-Ig (LTbetaR-Ig)
 inhibits the cytotoxic T lymphocyte (CTL) response to host antigenic
 disparities and ameliorates lethal graft-versus-host disease (GVHD) in a
 B6 to BDF1 mouse model. Here, we demonstrate that infusion of an mAb
 against CD40 ligand (CD40L) further increases the efficacy of LTbetaR-Ig,
 leading to complete prevention of GVHD. We further demonstrate that
 alloantigen-specific CTLs become anergic upon rapid expansion, and persist
 in the tolerized mice as a result of costimulatory blockade. Transfer of
 anergic CTLs to secondary F1 mice fails to induce GVHD despite the fact
 that anergic CTLs can be stimulated to proliferate in vitro by antigens
 and cytokines. Our study provides a potential new approach for the
 prevention of lethal GVHD.
 CT Check Tags: Animal; Female; Support, Non-U.S. Gov't; Support, U.S. Gov't,
 P.H.S.
 Antibodies, Monoclonal: PD, pharmacology
 *CD40 Ligand: IM, immunology
 Clonal Anergy
 Graft vs Host Disease: ET, etiology
 Graft vs Host Disease: IM, immunology

*Graft vs Host Disease: PC, prevention & control
 Immunosuppression: MT, methods
 Isoantigens
 *Lymphotoxin: AI, antagonists & inhibitors
 *Membrane Proteins: AI, antagonists & inhibitors
 Mice
 Mice, Congenic
 Mice, Inbred C57BL
 Mice, Inbred DBA
 Mice, Transgenic
 *T-Lymphocytes: IM, immunology
 T-Lymphocytes, Cytotoxic: IM, immunology
 *Tumor Necrosis Factor: AI, antagonists & inhibitors

L178 ANSWER 4 OF 30 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
 ACCESSION NUMBER: 2001:781125 HCAPLUS
 DOCUMENT NUMBER: 135:343309
 TITLE: Ligand p30/LIGHT for HVEM (herpes virus
 entry mediator) and methods of therapeutic use
 INVENTOR(S): Ware, Carl F.
 PATENT ASSIGNEE(S): La Jolla Institute for Allergy and Immunology, USA
 SOURCE: PCT Int. Appl., 104 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001079496	A2	20011025	WO 2001-US11857	20010411
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 2000-524325 A2 20000313
 US 2000-549096 A 20000412

AB A novel polypeptide ligand, p30, for HVEM (herpes virus entry mediator) and functional variations and fragments thereof are provided. The HVEM ligand is isolated from II-23.D7 cell line, a human CD4+ T cell hybridoma. P30, which can be found as a membrane protein and can function as a cytokine, is also called LIGHT, because this polypeptide is homologous to Lymphotoxins, exhibits Inducible expression, and competes with HSV Glycoprotein D for HVEM, a receptor expressed by T lymphocytes. Because LIGHT can compete with HSV glycoprotein D for HVEM, homo-trimeric sol. forms of this polypeptide can be used to block the entry of herpesvirus into cells. P30 is useful for modulating immune responses and in inhibiting infection and/or subsequent proliferation by herpesvirus. LIGHT also bind to the lymphotoxin-.beta. receptor (LT.beta.R). The present invention is also based upon the discovery that HVEM polypeptides have an antagonistic effect on inflammation. In particular, HVEM fusion proteins are capable of inhibiting inflammation when administered to a subject. HVEM-Fc fusion proteins are also provided. Methods for treating subjects with lymphoid cell disorders, tumors, autoimmune diseases, inflammatory disorders of those having or suspected of having a herpes

virus infection, utilizing p30 and the fusion proteins of the invention, are also provided.

CT Lymphoma
CT Receptors
CT Lymphotoxin
CT Gammaherpesvirinae
CT Herpesviridae
CT Human herpesvirus
CT Human herpesvirus 4
CT Human herpesvirus 5
CT Genetic vectors
CT Cytokines
CT Lymphoma
CT Lymphocyte
CT **Antibodies**
CT **Antibodies**
CT Neoplasm
CT Immunity
CT cDNA sequences
CT **Immunoglobulins**
CT Glycoproteins, specific or class
CT Cell activation
CT Inflammation
CT Drug delivery systems
CT Diabetes mellitus
CT Antitumor agents
CT **Antiviral agents**
CT Immunomodulators
CT Molecular cloning
CT Drug delivery systems
CT Signal transduction, biological
CT Transplant and Transplantation
CT Lymphokine receptors
CT Animal cell
CT Autoimmune disease
CT Leukemia
CT Multiple sclerosis
CT Myasthenia gravis
CT Rheumatoid arthritis
CT Protein sequences
CT **Fusion proteins (chimeric proteins)**
CT Drugs
CT Lymphocyte
CT Lupus erythematosus
CT Protein motifs
CT Growth, microbial
CT Infection
CT **Lymphokine receptors**

L178 ANSWER 5 OF 30 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:435124 HCAPLUS

DOCUMENT NUMBER: 135:45182

TITLE: Multimeric forms of TNF superfamily ligands

INVENTOR(S): Kornbluth, Richard S.

PATENT ASSIGNEE(S): USA

SOURCE: PCT Int. Appl., 73 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001042298	A1	20010614	WO 2000-US7380	20000320
W: AU, CA, JP				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				

PRIORITY APPLN. INFO.: US 1999-454223 A 19991209

AB A method for constructing stable bioactive fusion proteins of the difficult to express tumor necrosis factor superfamily (TNFSF), and particularly members CD40L (CD154) and RANKL/TRANCE, with collectins, particularly pulmonary surfactant protein D (SPD) is described. Single trimers of these proteins lack the full stimulatory efficacy of the natural membrane forms of these proteins in many cases. The multimeric nature of these sol. fusion proteins enables them to engage multiple receptors on the responding cells, thereby, mimicking the effects of the membrane forms of these ligands. For CD40L-SPD, the resulting protein stimulates B cells, macrophages, and dendritic cells, indicating its potential usefulness as a vaccine adjuvant. The large size of these fusion proteins makes them less likely to diffuse into the circulation, thereby limiting their potential systemic toxicity. This property may be esp. useful when these proteins are injected locally as a vaccine adjuvant or tumor immunotherapy agent to prevent them from diffusing away. In addn., these and other TNFSF-collecting fusion proteins present new possibilities for the expression of highly active, multimeric, sol. TNFSF members.

CT Glycoproteins, specific or class
 CT Antigens
 CT Cytokines
 CT Surfactant proteins (pulmonary)
 CT Tumor necrosis factors
 CT Tumor necrosis factors
 CT Tumor necrosis factors
 CT Immunostimulants
 CT Neoplasm
 CT Agglutinins and Lectins
 CT Lymphocyte
 CT Human immunodeficiency virus
 CT Proteins, general, biological studies
 CT Alfalfa (Medicago sativa)
 CT Animal
 CT Antitumor agents
 CT B cell (lymphocyte)
 CT DNA sequences
 CT Dendritic cell
 CT Escherichia coli
 CT Eukaryote (Eukaryotae)
 CT Genetic vectors
 CT Immunotherapy
 CT Macrophage
 CT Mammal (Mammalia)
 CT Molecular cloning
 CT Plant (Embryophyta)
 CT Prokaryote
 CT Protein sequences
 CT Saccharomyces cerevisiae
 CT Tobacco
 CT Vaccines
 CT Yeast

CT Fusion proteins (chimeric proteins)
 CT Lymphotoxin
 CT Animal cell
 CT Receptors
 CT Gene
 CT DNA
 CT Genetic element
 CT Gene, animal
 CT Tumor necrosis factors
 CT Promoter (genetic element)
 CT Vaccines
 CT Antitumor agents
 CT Lymphotoxin

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L178 ANSWER 6 OF 30 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:265459 HCAPLUS

DOCUMENT NUMBER: 134:290751

TITLE: Recombinant single-chain receptor antagonist proteins
 and their use in treatment of inflammatory disorders

INVENTOR(S): Halkier, Torben; Schambye, Hans Thalsgard; Okkels,
 Jens Sigurd; Andersen, Kim Vilbourn; Nissen, Torben
 Lauesgaard; Soni, Bobby; Jeppesen, Claus Bekker; Van
 Den Hazel, Bart

PATENT ASSIGNEE(S): Maxygen Aps, Den.

SOURCE: PCT Int. Appl., 123 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001025277	A1	20010412	WO 2000-DK563	20001006
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: DK 1999-1438 A 19991007
 DK 1999-1855 A 19991223
 DK 2000-1119 A 20000720

AB The invention relates to a single-chain oligomeric protein antagonist
 which binds to an extracellular ligand-binding domain of a cellular
 receptor of a type requiring binding of an oligomeric ligand to two or
 more receptor subunits to be activated, the protein comprising at least
 two, typically structurally homologous, receptor-binding sites of which at
 least one is capable of binding to a ligand-binding domain of the cellular
 receptor and at least one is incapable of effectively binding to a
 ligand-binding domain of the cellular receptor, whereby the single-chain
 oligomeric protein is capable of binding to the receptor, but incapable of
 activating the receptor; as well as to nucleotide sequences encoding such
 single-chain oligomeric proteins, expression vectors comprising such a
 nucleotide sequence, recombinant host cells comprising such a nucleotide

sequence or expression vector, methods for producing the nucleotide sequences and proteins, pharmaceutical compns. comprising the single-chain oligomeric protein, and use of the single-chain oligomeric protein for the prodn. of medicaments and in therapy. A preferred single-chain antagonist according to the invention is a TNF-.alpha. antagonist. Thus, a single-chain TNF-.alpha. protein comprising of 3 human TNF-.alpha. chains connected by linker peptides was produced with *Saccharomyces cerevisiae* and shown to be an agonist of the TNF-.alpha. receptor. The same TNF-.alpha. trimer contg. Y87R mutations in the first and third copies of TNF-.alpha. was also prepd. This was shown to be a partial TNF-.alpha. agonist and a competitive antagonist of the TNF-.alpha. receptor.

CT Bone morphogenetic proteins
 CT Bone morphogenetic proteins
 CT Bone morphogenetic proteins
 CT Proteins, specific or class
 CT Bone morphogenetic proteins
 CT Bone morphogenetic proteins
 CT Bone morphogenetic proteins
 CT Bone morphogenetic proteins
 CT Cytokines
 CT CD antigens
 CT Glycoproteins, specific or class
 CT Intestine, disease
 CT Antigens
 CT Growth factors, animal
 CT Proteins, specific or class
 CT Granulomatous disease
 CT Spinal column
 CT Antiarteriosclerotics
 CT Receptors
 CT Heart, disease
 CT Brain, disease
 CT CD30 (antigen)
 CT Molecular cloning
 CT Tumor necrosis factor receptors
 CT Tumor necrosis factor receptors
 CT Arthritis
 CT Anti-inflammatory agents
 CT Antirheumatic agents
 CT Cachexia
 CT Diabetes mellitus
 CT Myasthenia gravis
 CT Psoriasis
 CT Sjogren's syndrome
 CT Cytokine receptors
 CT Growth factor receptors
 CT Tumor necrosis factor receptors
 CT **Shock (circulatory collapse)**
 CT **Lymphotoxin**
 CT Fas ligand
 CT Interleukin 10
 CT Interleukin 16
 CT Platelet-derived growth factors
 CT Tumor necrosis factors
 CT Surgery
 CT Lupus erythematosus
 CT Eye, disease
 CT Receptors
 CT Transforming growth factors
 CT Transforming growth factors

CT Transforming growth factors
 CT Transforming growth factors
 CT Interferons

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L178 ANSWER 7 OF 30 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:630070 HCAPLUS

DOCUMENT NUMBER: 135:317407

TITLE: Elimination of colonic patches with lymphotoxin .beta.
 receptor-Ig prevents Th2 cell-type colitis

AUTHOR(S): Dohi, Taeko; Rennert, Paul D.; Fujihashi, Kohtaro;
 Kiyono, Hiroshi; Shirai, Yuko; Kawamura, Yuki I.;
 Browning, Jeffrey L.; McGhee, Jerry R.

CORPORATE SOURCE: Department of Gastroenterology, Research Institute,
 International Medical Center of Japan, Tokyo,
 162-8655, Japan

SOURCE: Journal of Immunology (2001), 167(5), 2781-2790

CODEN: JOIMA3; ISSN: 0022-1767

PUBLISHER: American Association of Immunologists

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Past studies have shown that colonic patches, which are the gut-assocd.
 lymphoreticular tissues (GALT) in the colon, become much more pronounced
 in hapten-induced murine colitis, and this was assocd. with Th2-type T
 cell responses. To address the role of GALT in colonic inflammation,
 exptl. colitis was induced in mice either lacking organized GALT or with
 altered GALT structures. Trinitrobenzene sulfonic acid was used to induce
 colitis in mice given lymphotoxin-.beta. receptor-Ig fusion protein
 (LT.beta.R-Ig) in utero, a treatment that blocked the formation of both
 Peyer's and colonic patches. Mice deficient in colonic patches developed
 focal acute ulcers with Th1-type responses, whereas lesions in normal mice
 were of a diffuse mucosal type with both Th1- and Th2-type cytokine prodn.
 We next detd. whether LT.beta.R-Ig could be used to treat colitis in
 normal or Th2-dominant, IFN-.gamma. gene knockout (IFN-.gamma.-/-) mice.
 Four weekly treatments with LT.beta.R-Ig resulted in deletion of Peyer's
 and colonic patches with significant decreases in nos. of dendritic cells.
 This pretreatment protected IFN-.gamma.-/- mice from trinitrobenzene
 sulfonic acid-induced colitis; however, in normal mice this weekly
 treatment was less protective. In these mice hypertrophy of colonic
 patches was seen after induction of colitis. We conclude that Th2-type
 colitis is dependent upon the presence of colonic patches. The effect of
 LT.beta.R-Ig was mediated through prevention of colonic patch hypertrophy
 in the absence of IFN-.gamma.. Thus, LT.beta.R-Ig may offer a possible
 treatment for the Th2-dominant form of colitis.

CT **Fusion proteins (chimeric proteins)**

CT Intestine, disease

CT Inflammation

CT Cytokines

CT **Immunoglobulins**

CT Lymphatic system

CT T cell (lymphocyte)

CT **Lymphokine receptors**

REFERENCE COUNT: 47 THERE ARE 47 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L178 ANSWER 8 OF 30 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 2001122609 EMBASE

TITLE: Effect of mature lymphocytes and lymphotoxin on the
 development of the follicle-associated epithelium and M

cells in mouse peyer's patches.

AUTHOR: Debard N.; Sierro F.; Browning J.; Kraehenbuhl J.-P.
 CORPORATE SOURCE: Dr. N. Debard, ISREC, CH-1066 Epalinges, Switzerland.
 Nathalie.Debard@isrec.unil.ch
 SOURCE: Gastroenterology, (2001) 120/5 (1173-1182).
 Refs: 45
 ISSN: 0016-5085 CODEN: GASTAB
 COUNTRY: United States
 DOCUMENT TYPE: Journal; Article
 FILE SEGMENT: 002 Physiology
 029 Clinical Biochemistry
 037 Drug Literature Index
 048 Gastroenterology
 LANGUAGE: English
 SUMMARY LANGUAGE: English

AB Background & Aims: Mechanisms regulating M-cell formation are still poorly understood. In vitro studies showed that lymphocytes trigger the conversion of enterocyte cell lines into M cell-like cells on coculture, whereas in vivo their role in M cell differentiation is still elusive. Our aim was first to examine Rag-1-/- mice, lacking B and T lymphocytes, for the presence of intestinal M Cells. Second, we investigated the role of lymphotoxin .alpha..beta. signaling on M-cell formation, given its pivotal role in the development of mouse Peyer's patches. Methods: Small intestines of Rag-1-/- mice, injected or not with soluble lymphotoxin .beta. receptor-immunoglobulin fusion Protein, were analyzed morphologically using whole mount cytochemical staining, immunohistochemistry, and electron microscopy. Results: Small Peyer's patch-like aggregates were found in Rag1-/- mice in normal number and location. The overlying epithelium of such aggregates was reduced in size but still harbored M cells. In vivo neutralization of lymphotoxin .beta.-receptor signaling partially reduced the percentage of M cells. Conclusions: The absence of mature lymphocytes does not prevent the formation of M cells indicating that the signaling molecules that support M-cell differentiation, such as lymphotoxin .alpha..beta., may also be supplied by non-B and non-T cells. Mature B lymphocytes, however, are required for the formation of a full-sized follicle-associated epithelium.

CT Medical Descriptors:
 *cell maturation
 lymphocyte
 coculture
 intestine cell
 B lymphocyte
 T lymphocyte
 cell differentiation
 small intestine
 Peyer patch
 cytochemistry
 immunohistochemistry
 electron microscopy
 cell aggregation
 cell size
 intestine epithelium
 cell count
 cellular distribution
 nonhuman
 mouse
 controlled study
 animal tissue
 animal cell
 article

priority journal

Drug Descriptors:

*lymphotoxin: IP, intraperitoneal drug administration

***lymphotoxin beta receptor immunoglobulin fusion protein**: IP,
intraperitoneal drug administration

unclassified drug

L178 ANSWER 9 OF 30 MEDLINE

ACCESSION NUMBER: 2001567231 MEDLINE

DOCUMENT NUMBER: 21527032 PubMed ID: 11672543

TITLE: Lymphotoxins and cytomegalovirus cooperatively induce
interferon-beta, establishing host-virus detente.

AUTHOR: Benedict C A; Banks T A; Senderowicz L; Ko M; Britt W J;
Angulo A; Ghazal P; Ware C F

CORPORATE SOURCE: Division of Molecular Immunology, La Jolla Institute for
Allergy and Immunology, San Diego, CA 92121, USA.

CONTRACT NUMBER: AI30627 (NIAID)

AI33068 (NIAID)

AI35602 (NIAID)

AI44851 (NIAID)

SOURCE: IMMUNITY, (2001 Oct) 15 (4) 617-26.

Journal code: 9432918. ISSN: 1074-7613.

PUB. COUNTRY: United States

Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200112

ENTRY DATE: Entered STN: 20011024

Last Updated on STN: 20020122

Entered Medline: 20011204

AB Tumor necrosis factor (TNF)-related cytokines regulate cell death and
survival and provide strong selective pressures for viruses, such as
cytomegalovirus (CMV), to evolve counterstrategies in order to persist in
immune-competent hosts. Signaling by the **lymphotoxin** (LT)-
beta receptor or TNF receptor-1, but not Fas or TRAIL receptors,
inhibits the cytopathicity and replication of human CMV by a nonapoptotic,
reversible process that requires nuclear factor kappa B (NF-kappa
B)-dependent induction of interferon-beta (IFN-beta). Efficient induction
of IFN-beta requires virus infection and LT signaling, demonstrating the
need for both host and viral factors in the curtailment of viral
replication without cellular elimination. LT alpha-deficient mice and LT
beta R-Fc transgenic mice were profoundly susceptible to murine CMV
infection. Together, these results reveal an essential and conserved role
for LTs in establishing host defense to CMV.

CT Check Tags: Animal; Human; Support, U.S. Gov't, P.H.S.

Carrier Proteins: PH, physiology

Cells, Cultured

Cytomegalovirus: GD, growth & development

Cytomegalovirus: PY, pathogenicity

***Cytomegalovirus: PH, physiology**

Herpesviridae Infections: ET, etiology

*Host-Parasite Relations

***Interferon-beta: BI, biosynthesis**

Interferon-beta: GE, genetics

Interferon-beta: PH, physiology

Lymphotoxin: GE, genetics

***Lymphotoxin: PD, pharmacology**

*Membrane Proteins: PD, pharmacology

Mice

Mice, Transgenic

Muromegalovirus

NF-kappa B: PH, physiology
 Proteins: PH, physiology
 RNA, Messenger: BI, biosynthesis
 Receptors, Tumor Necrosis Factor: GE, genetics
 Survival Rate
 *Trans-Activation (Genetics)
 *Tumor Necrosis Factor: PD, pharmacology
 Virus Replication: DE, drug effects

L178 ANSWER 10 OF 30 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 2
 ACCESSION NUMBER: 2000:260054 HCAPLUS
 DOCUMENT NUMBER: 132:292716
 TITLE: Reversal of viral-induced systemic shock and
 respiratory distress by blockade of the lymphotoxin
 .beta. pathway
 INVENTOR(S): Browning, Jeff; Puglielli, Maryann; Ahmed, Rafi
 PATENT ASSIGNEE(S): Biogen, Inc., USA
 SOURCE: PCT Int. Appl., 40 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000021558	A1	20000420	WO 1999-US23477	19991008
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 9962964	A1	20000501	AU 1999-62964	19991008
EP 1119370	A1	20010801	EP 1999-950270	19991008
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
BR 9915025	A	20010814	BR 1999-15025	19991008
NO 2001001757	A	20010608	NO 2001-1757	20010406
US 2002001585	A1	20020103	US 2001-829031	20010409
PRIORITY APPLN. INFO.:			US 1998-103662P	P 19981009
			WO 1999-US23477	W 19991008
AB This invention provides methods of inducing an antiviral response in an individual comprising administering to the individual an effective amt. of a LT-.beta. blocking agent and a pharmaceutically acceptable carrier. In particular this invention provides methods for treating viral-induced systemic shock and respiratory distress. The LT-.beta. inhibitor is an anti-LT-.beta. antibody, sol. LT-.beta. receptor, or fusion protein contg. LT-.beta. receptor and Ig.				
CT Lymphocytic choriomeningitis virus				
CT Proteins, specific or class				
CT Signal transduction, biological				
CT Immunoglobulins				
CT Immunoglobulins				
CT Human herpesvirus				
CT Fusion proteins (chimeric proteins)				

CT **Drugs**
 CT Dengue virus
 CT Ebola virus
 CT Lassa virus
 CT Marburg virus
 CT Sin Nombre hantavirus
 CT **Antibodies**
 CT **Shock (circulatory collapse)**
 CT Infection
 CT **Lymphotoxin**
 CT **Lymphokine receptors**

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS
 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L178 ANSWER 11 OF 30 WPIDS (C) 2002 THOMSON DERWENT
 ACCESSION NUMBER: 2000-672707 [65] WPIDS
 CROSS REFERENCE: 2001-550072 [58]
 DOC. NO. CPI: C2000-203785
 TITLE: Use of a **soluble tumor**
necrosis factor receptor,
 specifically TNFR Fc for the treatment of medical
 disorders, especially ordinary psoriasis.
 DERWENT CLASS: B04
 INVENTOR(S): PLUENNEKE, J D; FINCK, B K
 PATENT ASSIGNEE(S): (IMMV) IMMUNEX CORP; (PLUE-I) PLUENNEKE J D
 COUNTRY COUNT: 93
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 2000062790	A2	20001026	(200065)*	EN	30
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL					
OA PT SD SE SL SZ TZ UG ZW					
W: AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM DZ					
EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK					
LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI					
SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW					
AU 2000043632	A	20001102	(200107)		
US 2001021380	A1	20010913	(200155)		
AU 2001045336	A	20010903	(200202)		
EP 1171148	A2	20020116	(200207)	EN	
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT					
RO SE SI					

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 2000062790	A2	WO 2000-US10565	20000419
AU 2000043632	A	AU 2000-43632	20000419
US 2001021380	A1	US 1999-130074P	19990419
	Provisional	US 1999-134320P	19990514
	Provisional	US 1999-143959P	19990715
	Provisional	US 1999-148234P	19990811
	CIP of	US 1999-373828	19990813
	Provisional	US 1999-164676P	19991110
	Provisional	US 2000-184864P	20000225
	CIP of	WO 2000-US10565	20000419
	CIP of	US 2000-602351	20000623
	CIP of	US 2000-726781	20001129

AU 2001045336 A
EP 1171148 A2

US 2001-778403 20010207
AU 2001-45336 20010222
EP 2000-923525 20000419
WO 2000-US10565 20000419

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 2000043632	A	Based on
AU 2001045336	A	Based on
EP 1171148	A2	Based on
WO 200062790		
WO 200162272		
WO 200062790		

PRIORITY APPLN. INFO: US 2000-184864P 20000225; US 1999-130074P
19990419; US 1999-134320P 19990514; US
1999-143959P 19990715; US 1999-148234P
19990811; US 1999-373828 19990813; US
1999-164676P 19991110; US 2000-602351
20000623; US 2000-726781 20001129; US
2001-778403 20010207

AB WO 200062790 A UPAB: 20020130

NOVELTY - Treatment of ordinary psoriasis comprises administration of a soluble tumor necrosis factor (TNF) receptor.

ACTIVITY - Dermatological; antibacterial; antiviral; protozoacide; analgesic; cardiant; hemotropic; cytostatic; nootropic; anticonvulsant; hepatotropic; antirheumatic; osteopathic; immunosuppressive; anorectic; gynecological.

Sixty patients with active psoriatic arthritis were enrolled in a double-blind, randomized, placebo controlled study. Recombinant TNFR:Fc (etanercept) was used in the study and was administered twice weekly at a flat dose of 25 mg injected subcutaneously. The drug was well tolerated in all patients and the etanercept induced a significant improvement as compared with the placebo group in Psoriatic Arthritis response.

MECHANISM OF ACTION - TNF alpha antagonists.

USE - The TNF receptor is used in the treatment of disorders characterized by abnormal or excessive TNF alpha levels. Bacterial, viral or protozoal infections and resulting complications, cardiovascular disorders, chronic pain conditions, disorders of the endocrine system, genitourinary system disorders, various hematological and oncologic disorders, lymphoproliferative disorders, hereditary conditions such as Gaucher's disease, Huntington's disease, linear Immunoglobulin A disease and muscular dystrophy, head and spinal cord injuries, liver disorders, hearing loss disorders, non-arthritis medical conditions of the bones and joints, pulmonary disorders, rheumatic disorders, amyloidosis, disorders of the skin and mucous membranes, transplant disorders, ocular disorders, disorders of the female reproductive system and obesity can be treated and/or prevented.

TNFR:Fc induces an improvement over baseline in an indicator which is psoriasis area and severity index (PASI) or target lesion assessment score.

Dwg.0/0

L178 ANSWER 12 OF 30 MEDLINE
ACCESSION NUMBER: 2000280153 MEDLINE
DOCUMENT NUMBER: 20280153 PubMed ID: 10818004
TITLE: Impaired prion replication in spleens of mice lacking functional follicular dendritic cells.
AUTHOR: Montrasio F; Frigg R; Glatzel M; Klein M A; Mackay F; Aguzzi A; Weissmann C
CORPORATE SOURCE: Institute of Neuropathology, Department of Pathology,

University of Zurich, Schmelzbergstrasse 12, CH-8091
Zurich, Switzerland.

SOURCE: SCIENCE, (2000 May 19) 288 (5469) 1257-9.
Journal code: 0404511. ISSN: 0036-8075.

PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200005

ENTRY DATE: Entered STN: 20000606
Last Updated on STN: 20000606
Entered Medline: 20000525

AB In scrapie-infected mice, prions are found associated with splenic but not circulating B and T lymphocytes and in the stroma, which contains follicular dendritic cells (FDCs). Formation and maintenance of mature FDCs require the presence of B cells expressing membrane-bound **lymphotoxin-alpha/beta**. Treatment of mice with **soluble lymphotoxin-beta receptor** results in the disappearance of mature FDCs from the spleen. We show that this treatment abolishes splenic prion accumulation and retards neuroinvasion after intraperitoneal scrapie inoculation. These data provide evidence that FDCs are the principal sites for prion replication in the spleen.

CT Check Tags: Animal; Support, Non-U.S. Gov't
Cell Differentiation: GE, genetics
Cell Differentiation: IM, immunology
Dendritic Cells, Follicular: ME, metabolism
*Dendritic Cells, Follicular: PA, pathology
*Dendritic Cells, Follicular: VI, virology
Immunoglobulins: GE, genetics
Lymphotoxin: AI, antagonists & inhibitors
Lymphotoxin: GE, genetics
Lymphotoxin: IM, immunology
Mice
Mice, Inbred C57BL
Mice, SCID
PrPSc Proteins: AD, administration & dosage
*PrPSc Proteins: BI, biosynthesis
Receptors, Tumor Necrosis Factor: AI, antagonists & inhibitors
Receptors, Tumor Necrosis Factor: GE, genetics
Receptors, Tumor Necrosis Factor: IM, immunology
Recombinant Fusion Proteins: AD, administration & dosage
Scrapie: IM, immunology
Scrapie: ME, metabolism
Signal Transduction: GE, genetics
Signal Transduction: IM, immunology
Spleen: IM, immunology
Spleen: ME, metabolism
*Spleen: PA, pathology
*Spleen: VI, virology
Virus Replication: GE, genetics
***Virus Replication: IM, immunology**

L178 ANSWER 13 OF 30 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:502493 HCAPLUS

DOCUMENT NUMBER: 133:206273

TITLE: Temporary inactivation of follicular dendritic cells delays neuroinvasion of scrapie

AUTHOR(S): Mabbott, Neil A.; Mackay, Fabienne; Minns, Fiona; Bruce, Moira E.

CORPORATE SOURCE: Neuropathogenesis Unit, Institute for Animal Health,
Edinburgh, EH9 3JF, UK

SOURCE: Nature Medicine (New York) (2000), 6(7), 719-720
CODEN: NAMEFI; ISSN: 1078-8956

PUBLISHER: Nature America Inc.

DOCUMENT TYPE: Journal

LANGUAGE: English

AB The authors reported that a single treatment with a fusion protein consisting of lymphotoxin .beta. receptor and human Ig (LT.beta.R-Ig), a treatment that interferes with the integrity of follicular dendritic cells (FDCs), before or shortly after peripheral scrapie challenge was sufficient to substantially slow the transmissible spongiform encephalopathies (TSEs).

CT **Fusion proteins (chimeric proteins)**

CT **Immunoglobulins**

CT Dendritic cell

CT Brain, disease

CT Prion diseases

CT Prion diseases

CT **Lymphokine receptors**

L178 ANSWER 14 OF 30 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:425461 HCAPLUS

DOCUMENT NUMBER: 131:72734

TITLE: Methods of treating TNF.alpha.-mediated disease using chimeric anti-TNF antibodies

INVENTOR(S): Le, Junming; Vilcek, Jan; Dadonna, Peter; Ghrayeb, John; Knight, David; Seigal, Scott

PATENT ASSIGNEE(S): New York University, USA; Centocor, Inc.

SOURCE: U.S., 88 pp., Cont.-in-part of U.S. Ser. No. 10,406, abandoned.
CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 5

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5919452	A	19990706	US 1994-192861	19940204
EP 1097945	A2	20010509	EP 2000-204461	19920318
EP 1097945	A3	20011010		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC				
US 5698195	A	19971216	US 1994-324799	19941018
US 6277969	B1	20010821	US 1998-133119	19980812
US 2001027249	A1	20011004	US 2001-756301	20010108
US 2002022720	A1	20020221	US 2001-927703	20010810
PRIORITY APPLN. INFO.:		US 1991-670827	B2	19910318
		US 1992-853606	B2	19920318
		US 1992-943852	B2	19920911
		US 1993-10406	B2	19930129
		US 1993-13413	B2	19930202
		EP 1992-910625	A3	19920318
		US 1994-192093	B2	19940204
		US 1994-192102	A2	19940204
		US 1994-192861	B2	19940204
		US 1994-324799	A2	19941018
		US 1995-570674	B3	19951211
		US 1998-133119	A3	19980812
		US 2001-756398	A1	20010108

AB Treatment of tumor necrosis factor, TNF, mediated pathologies is provided by administering anti-TNF compds., such as anti-TNF antibodies and anti-TNF peptides, which compds. are specific for tumor necrosis factor-.alpha. (TNF.alpha.) or tumor necrosis factor-.beta. (TNF.beta.) and which are useful for in vivo therapy or diagnosis of TNF.alpha.-mediated pathologies and conditions, wherein the anti-TNF compd. is selected from the group consisting of at least one of an Ig variable region, a fragment of a TNF receptor and an anti-TNF peptide, such as a structural analog of a anti-TNF antibody fragment or a TNF receptor fragment. The anti-TNF antibodies, TNF receptors and their fragments are useful for treating bacterial infection, viral infection, parasitic infection, chronic inflammatory diseases, autoimmune diseases, malignancies, and/or neurodegenerative diseases.

CT **Immunoglobulins**
 CT Blood vessel, disease
 CT **Fusion proteins (chimeric proteins)**
 CT Disease, animal
 CT Mouse
 CT Rodent
 CT Thyroid gland, disease
 CT Infection
 CT Inflammation
 CT Nervous system
 CT Blood coagulation
 CT Transplant and Transplantation
 CT **Immunoglobulins**
 CT Arthritis
 CT Atherosclerosis
 CT Autoimmune disease
 CT Diabetes mellitus
 CT Epitopes
 CT Graves' disease
 CT Neoplasm
 CT Protein sequences
 CT Rheumatoid arthritis
 CT Sarcoidosis
 CT Sepsis
 CT cDNA sequences
 CT **Lymphotoxin**
 CT Tumor necrosis factors
 CT **Antibodies**
 CT Parasite
 CT Intestine, disease
 CT **Immunoglobulins**
 CT **Antibodies**
 CT Tumor necrosis factor receptors
 CT Proteins, specific or class
 CT Proteins, specific or class
 CT Connective tissue
 CT Lupus erythematosus
 CT Intestine, disease
 CT Infection

REFERENCE COUNT: 82 THERE ARE 82 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L178 ANSWER 15 OF 30 WPIDS (C) 2002 THOMSON DERWENT
 ACCESSION NUMBER: 1999-120787 [10] WPIDS
 DOC. NO. NON-CPI: N1999-088120
 DOC. NO. CPI: C1999-035386
 TITLE: New ligand for herpes virus entry mediator -

used to develop products for treating e.g. autoimmune disease, lymphomas, leukaemias, **infections**, immunosuppression or AIDS.

DERWENT CLASS: B04 D16 S03
 INVENTOR(S): WARE, C F; WARE, C E
 PATENT ASSIGNEE(S): (LJOL-N) LA JOLLA INST ALLERGY & IMMUNOLOGY
 COUNTRY COUNT: 83
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9902563	A1	19990121	(199910)*	EN	60
RW: AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
W: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM GW HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW					
AU 9882882	A	19990208	(199924)		
EP 1003782	A1	20000531	(200031)	EN	
R: AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE					
US 6140467	A	20001031	(200057)		
CN 1268953	A	20001004	(200067)		
JP 2001509373	W	20010724	(200147)		62
KR 2001021579	A	20010315	(200159)		
AU 741419	B	20011129	(200206)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9902563	A1	WO 1998-US13897	19980707
AU 9882882	A	AU 1998-82882	19980707
EP 1003782	A1	EP 1998-933153	19980707
		WO 1998-US13897	19980707
US 6140467	A Provisional	US 1997-51964P	19970707
		US 1997-898234	19970730
CN 1268953	A	CN 1998-808663	19980707
JP 2001509373	W	WO 1998-US13897	19980707
		JP 2000-502082	19980707
KR 2001021579	A	KR 2000-700137	20000107
AU 741419	B	AU 1998-82882	19980707

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9882882	A Based on	WO 9902563
EP 1003782	A1 Based on	WO 9902563
JP 2001509373	W Based on	WO 9902563
AU 741419	B Previous Publ. Based on	AU 9882882 WO 9902563

PRIORITY APPLN. INFO: US 1997-898234 19970730; US 1997-51964P 19970707

AB WO 9902563 A UPAB: 19990310

The following are claimed: (1) a purified polypeptide characterised by:
 (a) having a molecular weight of 30 kDa as determined by SDS-PAGE; (b) a pI of about 7 to 8.5; (c) binding to the herpes **virus** entry mediator (HVEM) polypeptide; and (d) binding to the **lymphotoxin**

beta receptor (**LT beta R**) polypeptide; (2) an isolated nucleic acid sequence which encodes a polypeptide as in (A); (3) an expression vector containing a nucleic acid sequence as in (2); (4) a host cell containing a expression vector as in (3); (5) an **antibody** that binds to a polypeptide as in (1); (6) identifying a compound which affects an HVEM-binding agent-mediated cellular response comprising: (a) incubating the compound with an HVEM polypeptide or a cell expressing an HVEM polypeptide, and an HVEM-binding agent, to allow the components to interact; and (b) determining the effect of the compound on the HVEM-binding agent-mediated cellular response; (7) identifying a compound which affects an **LT beta R**-p300-mediated cellular response, comprising: (a) incubating the compound with an **LT beta R** polypeptide or a cell expressing an **LT beta R** polypeptide, and with p30, to allow the components to interact; and (b) determining the effect of the compound on the **LT beta R**-p30-mediated cellular response; (8) modulating an HVEM-mediated cellular response, comprising contacting a cell expressing HVEM with an HVEM binding agent or a p30 binding agent; (9) modulating an HVEM-mediated cellular response comprising contacting a cell expressing the HVEM with an HVEM binding agent or an **LT alpha** binding agent; (10) modulating an **LT beta R**-mediated cellular response comprising contacting a cell expressing **LT beta R** with an **LT beta R** binding agent or a p30 binding agent, and (11) **inhibiting** herpes simplex virus (HSV) infection of a cell, comprising contacting a cell susceptible to HSV infection with a HVEM binding agent, to **inhibit** HSV infection.

USE - The novel 30 kDa polypeptide ligand, designated p30, can bind to HVEM and **LT beta**. The products can be used for detection, diagnosis and screening assays. **Inhibitors** of p30 or **LT alpha** interactions with HVEM, or p30 interactions with **LT beta R**, could be used to modulate diseases where unwanted lymphocytes proliferation occurs, including T and B lymphomas or leukaemias, or in autoimmune diseases such as rheumatoid arthritis, insulin-dependent diabetes mellitus, multiple sclerosis, systemic lupus erythematosus or myasthenia gravis. They can also be used to **inhibit** herpes virus infection by **blocking** the ability of herpes virus to enter a cellular target. Compounds which stimulate lymphocyte activation can be used for stimulating immune responses in subjects with infectious diseases, or in which the subject is immunosuppressed as, e.g. in patients undergoing chemotherapy or radiation therapy for cancer or in patients with AIDS.

Dwg.0/7

L178 ANSWER 16 OF 30 MEDLINE
 ACCESSION NUMBER: 2000048155 MEDLINE
 DOCUMENT NUMBER: 20048155 PubMed ID: 10581078
 TITLE: Reversal of **virus**-induced systemic shock and respiratory failure by blockade of the lymphotoxin pathway.
 AUTHOR: Puglielli M T; Browning J L; Brewer A W; Schreiber R D; Shieh W J; Altman J D; Oldstone M B; Zaki S R; Ahmed R
 CORPORATE SOURCE: Emory Vaccine Center and Department of Microbiology and Immunology, Emory University School of Medicine, Atlanta, Georgia 30322, USA.
 CONTRACT NUMBER: AI09866 (NIAID)
 AI30048 (NIAID)
 NS21496 (NINDS)
 SOURCE: NATURE MEDICINE, (1999 Dec) 5 (12) 1370-4.
 Journal code: 9502015. ISSN: 1078-8956.
 PUB. COUNTRY: United States
 Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199912
 ENTRY DATE: Entered STN: 20000113
 Last Updated on STN: 20000113
 Entered Medline: 19991229

AB At present, little is known about the pathogenesis of acute virus-induced shock and pulmonary failure. A chief impediment in understanding the underlying disease mechanisms and developing treatment strategies has been the lack of a suitable animal model. This study describes a mouse model of virus-induced systemic shock and respiratory distress, and shows that blockade of the lymphotoxin beta receptor pathway reverses the disease.

CT Check Tags: Animal; Female; Human; Male; Support, U.S. Gov't, P.H.S.

Antibodies, Monoclonal: PD, pharmacology

Disease Models, Animal

Lymphocytic Choriomeningitis: IM, immunology

Lymphocytic Choriomeningitis: PA, pathology

Lymphocytic Choriomeningitis: TH, therapy

Mice

Mice, Inbred NZB

*Receptors, Tumor Necrosis Factor: AI, antagonists & inhibitors

Respiratory Insufficiency: IM, immunology

Respiratory Insufficiency: PA, pathology

*Respiratory Insufficiency: TH, therapy

Shock, Septic: IM, immunology

Shock, Septic: PA, pathology

*Shock, Septic: TH, therapy

Signal Transduction

Time Factors

L178 ANSWER 17 OF 30 HCAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1999:438429 HCAPLUS

DOCUMENT NUMBER: 131:256111

TITLE: Lymphotoxin-.beta.-deficient mice show defective antiviral immunity

AUTHOR(S): Berger, Dietmar P.; Naniche, Denise; Crowley, Mary T.; Koni, Pandelakis A.; Flavell, Richard A.; Oldstone, Michael B. A.

CORPORATE SOURCE: Department of Neuropharmacology, Division of Virology, IMM-6, The Scripps Research Institute, La Jolla, CA, 92037, USA

SOURCE: Virology (1999), 260(1), 136-147

CODEN: VIRLAX; ISSN: 0042-6822

PUBLISHER: Academic Press

DOCUMENT TYPE: Journal

LANGUAGE: English

AB Lymphotoxin .beta. (LT.beta.), a member of the tumor necrosis factor family, plays an important role in lymphoid organogenesis. To det. whether LT.beta. is involved in cellular immunity, the authors investigated the antiviral immune response of LT.beta.-deficient (LT.beta.-/-) mice to lymphocytic choriomeningitis virus (LCMV). Cytotoxic T lymphocyte (CTL) responses to LCMV were severely diminished, leading to viral persistence in brain and kidney. However, major functions of LT.beta.-deficient T lymphocytes and dendritic cells were intact. Reconstitution of irradiated LT.beta. +/- mice with LT.beta. -/- bone marrow induced a disorganized splenic structure, accompanied by impairment of the LCMV-specific CTL response. These data indicate that the absence of LT.beta. does not affect the intrinsic function of T lymphocytes or of dendritic cells but that the structural integrity of the spleen is

strongly assocd. with generation of antiviral immunity. (c) 1999 Academic Press.

CT **Immunity**
 CT T cell (lymphocyte)
 CT Mouse
 CT Spleen
 CT Lymphocytic choriomeningitis virus
 CT **Infection**
 CT **Lymphotoxin**

REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L178 ANSWER 18 OF 30 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 3

ACCESSION NUMBER: 1998:268386 HCAPLUS

DOCUMENT NUMBER: 129:3859

TITLE: Soluble lymphotoxin-beta receptors, anti-lymphotoxin receptor antibodies, and anti-lymphotoxin ligand antibodies as therapeutic agents for the treatment of immunological diseases

INVENTOR(S): Browning, Jeffrey; Hochman, Paula Susan; Rennert, Paul D.; Mackay, Fabienne

PATENT ASSIGNEE(S): Biogen, Inc., USA; Browning, Jeffrey; Hochman, Paula Susan; Rennert, Paul D.; Mackay, Fabienne

SOURCE: PCT Int. Appl., 78 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9817313	A2	19980430	WO 1997-US19436	19971024
W:	AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RW:	GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG			
AU 9850896	A1	19980515	AU 1998-50896	19971024
AU 726357	B2	20001102		
BR 9712670	A	19991019	BR 1997-12670	19971024
EP 954333	A2	19991110	EP 1997-913798	19971024
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO			
CN 1237910	A	19991208	CN 1997-199906	19971024
JP 2001502697	T2	20010227	JP 1998-519688	19971024
NO 9901926	A	19990625	NO 1999-1926	19990422
PRIORITY APPLN. INFO.:			US 1996-29060P P	19961025
			WO 1997-US19436 W	19971024

AB Compns. and methods comprising "lymphotoxin-beta. receptor blocking agents" which block lymphotoxin-beta. receptor signalling and are useful for altering immunol. diseases, and particularly antibody mediated immune responses. The lymphotoxin-beta. receptor blocking agents are monoclonal antibodies, sol. lymphotoxin-beta. receptor, anti-lymphotoxin ligand antibodies, or fusion protein of sol. lymphotoxin-beta. receptor and Ig Fc domain. The immunol. disease is e.g. AIDS, HIV infection, graft rejection, etc. Antiviral agent, anti-AIDS agent, or anti-CD40L and other

carrier or adjuvant are also included in the remedy.

CT Glycoproteins, specific or class

CT **Immunoglobulins**

CT Immunostimulants

CT Dendritic cell

CT Immunity

CT **Lymphotoxin**

CT Ligands

CT **Antibodies**

CT AIDS (disease)

CT **Antiviral agents**

CT B cell (lymphocyte)

CT Carriers

CT Human immunodeficiency virus

CT Mammal (Mammalia)

CT Protein sequences

CT Transplant rejection

CT **Antibodies**

CT **Lymphokine receptors**

L178 ANSWER 19 OF 30 HCAPLUS COPYRIGHT 2002 ACS DUPLICATE 4

ACCESSION NUMBER: 1997:205227 HCAPLUS

DOCUMENT NUMBER: 126:198559

TITLE: Soluble lymphotoxin-.beta. receptors and
anti-lymphotoxin receptor and ligand antibodies, as
therapeutic agents for the treatment of immunological
disease

INVENTOR(S): Browning, Jeffrey L.; Benjamin, Christopher D.;
Hochman, Paula S.

PATENT ASSIGNEE(S): Biogen, Inc., USA; Browning, Jeffrey L.; Benjamin,
Christopher D.; Hochman, Paula S.

SOURCE: PCT Int. Appl., 75 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9703687	A1	19970206	WO 1996-US12010	19960719
W:		AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE		
RW:		KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM		
US 5925351	A	19990720	US 1995-505606	19950721
AU 9665912	A1	19970218	AU 1996-65912	19960719
AU 715407	B2	20000203		
EP 840616	A1	19980513	EP 1996-925393	19960719
R:		AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI		
CN 1195294	A	19981007	CN 1996-196770	19960719
BR 9609716	A	19990706	BR 1996-9716	19960719
JP 11510488	T2	19990914	JP 1996-506919	19960719
NO 9800172	A	19980323	NO 1998-172	19980114
FI 9800122	A	19980319	FI 1998-122	19980120
US 6403087	B1	20020611	US 1998-166	19980608
PRIORITY APPLN. INFO.:			US 1995-505606	A 19950721

WO 1996-US12010 W 19960719

AB This invention relates to compns. and methods comprising "lymphotoxin-.beta. receptor blocking agents", which block lymphotoxin-.beta. receptor signalling. Lymphotoxin-.beta. receptor blocking agents are useful for treating lymphocyte-mediated immunol. diseases, and more particularly, for inhibiting Th1 cell-mediated immune responses, e.g. delayed type hypersensitivity, contact hypersensitivity, tuberculin-type hypersensitivity, granulomatous, organ transplant rejection, and others. This invention also relates to the use of antibodies directed against either the lymphotoxin-.beta. receptor or its ligand, surface lymphotoxin, that act as lymphotoxin-.beta. receptor blocking agents. A novel screening method for selecting sol. receptors, antibodies and other agents that block LT-.beta. receptor signalling is provided.

CT **Immunoglobulins**
 CT Antitumor agents
 CT Dermatitis
 CT Allergy
 CT Immunity
 CT Transplant and Transplantation
 CT T cell (lymphocyte)
 CT Tuberculin
 CT Intestine, disease
 CT Diabetes mellitus
 CT **Antibodies**
 CT Transplant and Transplantation
 CT Tumor necrosis factor receptors
 CT **Fusion proteins (chimeric proteins)**
 CT Autoimmune disease
 CT Granulomatous disease
 CT Multiple sclerosis
 CT Protein sequences
 CT Psoriasis
 CT **Antibodies**
 CT Eye, disease
 CT Eye, disease
 CT **Lymphokine receptors**

L178 ANSWER 20 OF 30 MEDLINE

ACCESSION NUMBER: 97461446 MEDLINE
 DOCUMENT NUMBER: 97461446 PubMed ID: 9317127
 TITLE: Characterization of lymphotoxin-alpha beta complexes on the surface of mouse lymphocytes.
 AUTHOR: Browning J L; Sizing I D; Lawton P; Bourdon P R; Rennert P D; Majeau G R; Ambrose C M; Hession C; Miatkowski K; Griffiths D A; Ngam-ek A; Meier W; Benjamin C D; Hochman P S
 CORPORATE SOURCE: Department of Immunology, Biogen, Cambridge, MA 02142, USA.. Jeff_Browning@biogen.com
 SOURCE: JOURNAL OF IMMUNOLOGY, (1997 Oct 1) 159 (7) 3288-98.
 Journal code: 2985117R. ISSN: 0022-1767.
 PUB. COUNTRY: United States
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Abridged Index Medicus Journals; Priority Journals
 ENTRY MONTH: 199710
 ENTRY DATE: Entered STN: 19971105
 Last Updated on STN: 19971105
 Entered Medline: 19971021

AB The lymphotoxin-alpha beta complex (LT alpha beta) is found on the surface

of activated lymphocytes and binds to a specific receptor called the LT beta receptor (LT beta R). In the mouse, signaling through this pathway is important for lymph node development and splenic organization, yet the biochemical properties of murine LT alpha and LT beta are essentially unknown. Here we have used **soluble** receptor-Ig forms of

LT beta R and TNF-R55 and mAbs specific for murine LT alpha, LT beta, and LT beta R to characterize the appearance of surface LT alpha beta complexes and LT beta R on several common murine cell lines. Cells that bound **LT beta R** also

bound **anti-LT alpha** and **anti-LT beta** mAbs in a FACS analysis.

The ability of these reagents to discriminate between surface TNF and LT was verified by analysis of surface TNF-positive, LPS-activated murine RAW 264.7 monocytic cells. Primary mouse leukocytes from spleen, thymus, lymph node, and peritoneum were activated in vitro, and CD4+ and CD8+ T cells as well as B cells expressed surface LT ligand but not the LT beta R.

Conversely, elicited peritoneal monocytes/macrophages were surface LT negative yet LT beta R positive. This study shows that on mononuclear cells, surface LT complexes and receptor are expressed similarly in mice and man, and the tools described herein form the foundation for study of the functional roles of the LT system in the mouse.

CT Check Tags: Animal; Comparative Study; Human

Antibodies, Monoclonal: CH, chemistry

Antibody Specificity

B-Lymphocytes: CH, chemistry

Cell Line

Flow Cytometry

Hybridomas

Immunoglobulins: GE, genetics

Immunoglobulins: ME, metabolism

*Lymphocytes: CH, chemistry

Lymphocytes: IM, immunology

*Lymphocytes: ME, metabolism

Lymphoma, T-Cell

***Lymphotoxin: CH, chemistry**

Lymphotoxin: IM, immunology

Macrophages

*Membrane Proteins: CH, chemistry

Membrane Proteins: IM, immunology

Mice

Rats

Receptors, Tumor Necrosis Factor: GE, genetics

Receptors, Tumor Necrosis Factor: ME, metabolism

Recombinant Fusion Proteins: ME, metabolism

Solubility

Species Specificity

T-Lymphocytes: CH, chemistry

Tumor Cells, Cultured

*Tumor Necrosis Factor: CH, chemistry

Tumor Necrosis Factor: IM, immunology

Tumor Necrosis Factor: ME, metabolism

L178 ANSWER 21 OF 30 MEDLINE

ACCESSION NUMBER: 1998079319 MEDLINE

DOCUMENT NUMBER: 98079319 PubMed ID: 9418124

TITLE: Selective disruption of lymphotoxin ligands reveals a novel set of mucosal lymph nodes and unique effects on lymph node cellular organization.

AUTHOR: Rennert P D; Browning J L; Hochman P S

CORPORATE SOURCE: Department of Immunology/Inflammation, Biogen Inc., Cambridge, MA 02142, USA.

SOURCE: INTERNATIONAL IMMUNOLOGY, (1997 Nov) 9 (11) 1627-39.
Journal code: 8916182. ISSN: 0953-8178.
PUB. COUNTRY: ENGLAND: United Kingdom
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199802
ENTRY DATE: Entered STN: 19980306
Last Updated on STN: 19980306
Entered Medline: 19980220

AB Lymphotoxin (LT) provides a critical signal for the genesis of lymph nodes (LN) in mice. Here we show that mice treated in utero with LT beta-R-Ig, which binds to the membrane LT alpha 1 beta 2 heterotrimer, lacked most LN, yet retained a set of mucosal surface draining LN. Since mice genetically deficient in LT alpha lack all LN, including the mucosal set, we hypothesize that a novel LT alpha-dependent pathway controls their genesis. This novel set of mucosal LN cannot be discriminated on the basis of addressin expression. The discovery of LN in mice treated with **LT beta-R-Ig fusion**

protein in utero allowed us to compare the roles of membrane LT alpha beta or soluble LT alpha/tumor necrosis factor (TNF) in the development of cellular organization in LN and spleen. Our results indicate that both membrane LT alpha beta and soluble LT alpha/TNF mediate T-B cell segregation and the organization of B cell follicles in spleen and LN. Interestingly, while antagonism of membrane LT alpha beta or soluble LT alpha/TNF prevented germinal center (GC) formation in spleen, antagonism of soluble LT alpha/TNF had no effect on LN formation. The data suggest that multiple LT/TNF ligands control B cell follicle organization in the spleen and LN of adult mice, and that the requirements for LT/TNF ligands in GC formation are distinct in the different lymphoid organs.

CT Check Tags: Animal; Female; Human; Male

Antigens, CD: ME, metabolism
Antigens, CD: PH, physiology
Antigens, CD58: ME, metabolism
Antigens, CD58: PH, physiology
Antigens, Surface: BI, biosynthesis
B-Lymphocytes: CY, cytology
Down-Regulation
Ligands

Lymph Nodes: CY, cytology

*Lymph Nodes: EM, embryology

Lymph Nodes: ME, metabolism

Lymphotoxin: AI, antagonists & inhibitors

Lymphotoxin: ME, metabolism

*Lymphotoxin: PH, physiology

Membrane Proteins: ME, metabolism

Membrane Proteins: PH, physiology

Mice

Mice, Inbred BALB C

Mucous Membrane: EM, embryology

Pregnancy

Receptors, Tumor Necrosis Factor: ME, metabolism

Receptors, Tumor Necrosis Factor: PH, physiology

T-Lymphocytes: CY, cytology

Tumor Necrosis Factor: ME, metabolism

*Tumor Necrosis Factor: PH, physiology

L178 ANSWER 22 OF 30

MEDLINE

DUPLICATE 5

ACCESSION NUMBER: 97438922 MEDLINE

DOCUMENT NUMBER: 97438922 PubMed ID: 9293389

TITLE: Adenovirus-mediated blockade of **lymphotoxin-beta** inhibits the induction of contact sensitivity in mice.

AUTHOR: Trueb R M; Brown G R; Dougherty I; Valdez-Silva M; Cruz P D Jr

CORPORATE SOURCE: Department of Dermatology, University of Zurich.

CONTRACT NUMBER: 1K1-1DKO2304 (NIDDK)
5P01-DK42582 (NIDDK)
R29-AI31649-04 (NIAID)
+

SOURCE: EXPERIMENTAL DERMATOLOGY, (1997 Aug) 6 (4) 175-80.
Journal code: 9301549. ISSN: 0906-6705.

PUB. COUNTRY: Denmark
Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 199710

ENTRY DATE: Entered STN: 19971105
Last Updated on STN: 19971105
Entered Medline: 19971023

AB **Lymphotoxin-beta** is a newly recognized member of the tumor necrosis factor ligand family. Recent studies have suggested a role for this cytokine in delayed-type hypersensitivity responses. To determine whether **lymphotoxin-beta** contributes to the development of contact sensitivity, we utilized an inhibitor protein that can effectively **block** binding of **lymphotoxin-beta** to its **receptor**. An adenoviral vector was created that encodes for a **lymphotoxin-beta** inhibitor protein consisting of the extracellular domain of the **lymphotoxin-beta** receptor fused to IgG heavy chain. Intravenous injection of the recombinant virus into BALB/c mice yielded plasma levels of inhibitor protein > 500 micrograms that persisted for 1 week. Mice treated in this manner were compared with control animals injected with adenovirus encoding beta-galactosidase, with respect to their ability to mount contact sensitivity responses to epicutaneously applied dinitro-fluorobenzene. Mice transduced with the **lymphotoxin-beta** inhibitor prior to the induction of contact sensitivity showed significantly suppressed ear swelling responses. By contrast, mice treated with the **lymphotoxin-beta** inhibitor prior to the elicitation of contact sensitivity showed no change in ear swelling responses in comparison to controls. These findings indicate that **lymphotoxin-beta** plays an important role in the afferent phase of the contact sensitivity response.

CT Check Tags: Animal; Comparative Study; Female; Support, Non-U.S. Gov't; Support, U.S. Gov't, P.H.S.

*Adenoviridae: GE, genetics

*Dermatitis, Contact: ET, etiology

*Dermatitis, Contact: PC, prevention & control

Mice

Mice, Inbred BALB C

Mice, Inbred Strains

*Receptors, Tumor Necrosis Factor: AI, antagonists & inhibitors

Receptors, Tumor Necrosis Factor: PH, physiology

Recombinant Proteins: BL, blood

Recombinant Proteins: PD, pharmacology

Viral Proteins: BL, blood

Viral Proteins: PD, pharmacology

L178 ANSWER 23 OF 30 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 96348247 EMBASE

DOCUMENT NUMBER: 1996348247
 TITLE: Disrupted splenic architecture, but normal lymph node development in mice expressing a soluble **lymphotoxin-.beta.** receptor-IgG1 fusion protein.
 AUTHOR: Ettinger R.; Browning J.L.; Michie S.A.; Van Ewijk W.; McDevitt H.O.
 CORPORATE SOURCE: Department of Microbiology, Stanford Univ. School of Medicine, Stanford, CA 94305, United States
 SOURCE: Proceedings of the National Academy of Sciences of the United States of America, (1996) 93/23 (13102-13107). ISSN: 0027-8424 CODEN: PNASA6
 COUNTRY: United States
 DOCUMENT TYPE: Journal; Conference Article
 FILE SEGMENT: 026 Immunology, Serology and Transplantation
 029 Clinical Biochemistry
 LANGUAGE: English
 SUMMARY LANGUAGE: English

AB Early in ontogeny, the secondary lymphoid organs become populated with numerous cells of mesodermal origin which forms both the lymphoid and stromal elements. The critical receptor/ligand interactions necessary for lymphoid organogenesis to occur are for the most part unknown. Although lymphotoxin- .alpha. (LT.alpha.) has been shown to be required for normal lymph node, Peyer's patch, and splenic development, it is unclear if soluble LT.alpha.3, and/or cell-bound **lymphotoxin-.alpha..beta.** (LT.alpha..beta.) mediate these developmental events. Here we report that blocking LT.alpha..**beta.**/**lymphotoxin-.beta.** receptor (LT.beta.R) interaction in vivo by generating mice which express a soluble LT.beta.R-Fc fusion protein driven by the human cytomegalovirus promoter results in an array of anatomic abnormalities affecting both the spleen and Peyer's patches, but not the lymph nodes. These results demonstrate that surface LT.alpha..beta. ligand plays a critical role in normal lymphoid organ development.

CT Medical Descriptors:

*lymphoid organ
 animal cell
 animal experiment
 animal tissue
 conference paper
 controlled study
cytomegalovirus

female
 lymph node
 male
 mouse
 nonhuman
 peyer patch
 priority journal
 promoter region
 spleen
 transgenic mouse

Drug Descriptors:

*hybrid protein
 *immunoglobulin g1
 *lymphotoxin
 *tumor necrosis factor receptor

L178 ANSWER 24 OF 30 MEDLINE
 ACCESSION NUMBER: 96224067 MEDLINE
 DOCUMENT NUMBER: 96224067 PubMed ID: 8621492

TITLE: Preparation and characterization of soluble recombinant heterotrimeric complexes of human **lymphotoxins** alpha and **beta**.
AUTHOR: Browning J L; Miatkowski K; Griffiths D A; Bourdon P R; Hession C; Ambrose C M; Meier W
CORPORATE SOURCE: Department of Protein Engineering, Biogen, Cambridge, Massachusetts 02142, USA.
SOURCE: JOURNAL OF BIOLOGICAL CHEMISTRY, (1996 Apr 12) 271 (15) 8618-26.
JOURNAL code: 2985121R. ISSN: 0021-9258.
PUB. COUNTRY: United States
Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: English
FILE SEGMENT: Priority Journals
ENTRY MONTH: 199606
ENTRY DATE: Entered STN: 19960627
Last Updated on STN: 19960627
Entered Medline: 19960620

AB The lymphotoxin (LT) protein complex is a heteromer of alpha (LT-alpha, also called tumor necrosis factor (TNF)-beta) and beta (LT-beta) chains anchored to the membrane surface by the transmembrane domain of the LT-beta portion. Both proteins belong to the TNF family of ligands and receptors that regulate aspects of the immune and inflammatory systems. The LT complex is found on activated lymphocytes and binds to the **lymphotoxin-beta** receptor, which is generally present on nonlymphoid cells. The signaling function of this receptor-ligand pair is not precisely known but is believed to be involved in the development of the peripheral lymphoid organs. To analyze the properties of this complex, a soluble, biologically active form of the surface complex was desired. The LT-beta molecule was engineered into a secreted form and co-expressed with LT-alpha using baculovirus/insect cell technology. By exploiting receptor affinity columns, the LT-alpha3, LT-alpha2/beta1, and LT-alpha1/beta2 forms were purified. All three molecules were trimers, and their biochemical properties are described. The level of LT-alpha3-like components in the LT-alpha1/beta2 preparation was found to be 0.02% by following the activity of the preparation in a WEHI 164 cytotoxicity assay. LT-alpha3 with an asparagine 50 mutation (D50N) cannot bind the TNF receptors. Heteromeric LT complexes were prepared with this mutant LT-alpha form, allowing a precise delineation of the extent of biological activity mediated by the TNF receptors. A LT-alpha3 based cytotoxic activity was used to show that the LT-alpha1/beta2 form cannot readily scramble into a mixture of forms following various treatments and storage periods. This biochemical characterization of the LT heteromeric ligands and the demonstration of their stability provides a solid foundation for both biological studies and an analysis of the specificity of the LT-beta and TNF receptors for the various LT forms.

CT Check Tags: Animal; Human
Amino Acid Sequence
Base Sequence
Biological Assay
Chromatography, High Pressure Liquid
Cytotoxins: CH, chemistry
DNA Primers: CH, chemistry
***Lymphotoxin: CH, chemistry**
Macromolecular Systems
*Membrane Proteins: CH, chemistry
Mice
Molecular Sequence Data
Molecular Weight
Nucleopolyhedrovirus

Recombinant Proteins
Solubility
Spodoptera

L178 ANSWER 25 OF 30 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
ACCESSION NUMBER: 97038344 EMBASE
DOCUMENT NUMBER: 1997038344
TITLE: Production of prostaglandin E2 and collagenase is inhibited
by the recombinant soluble tumour necrosis factor receptor
p55-human .gamma.3 fusion protein at concentrations a
hundred-fold lower than those decreasing T cell activation.
AUTHOR: Nicod L.P.; Isler P.; Chicheportiche R.; Songeon F.; Dayer
J.-M.
CORPORATE SOURCE: Dr. L.P. Nicod, Respiratory Division, University Hospital,
1211 Geneva 14, Switzerland
SOURCE: European Cytokine Network, (1996) 7/4 (757-763).
Refs: 34
ISSN: 1148-5493 CODEN: ECYNEJ
COUNTRY: France
DOCUMENT TYPE: Journal; Article
FILE SEGMENT: 026 Immunology, Serology and Transplantation
LANGUAGE: English
SUMMARY LANGUAGE: English

AB TNF.alpha., and **lymphotoxin** .alpha. (TNF-.beta.) are
pleiotropic cytokines with regulatory functions in inflammatory reactions
and T cell activation. Natural TNF inhibitors such as soluble TNF-binding
proteins, i.e. TNFR55 and TNFR75, are shed from white blood cells and
probably other cells. These naturally occurring inhibitors of TNF are
shown to be 10 times less effective than the bivalent antagonist of TNF,
recombinant soluble TNF receptor p55-human .gamma.3 fusion protein
(rsTNFR-p55.gamma.3), in controlling the release of prostaglandin E2
(PGE2) and collagenase by fibroblasts, as well as in controlling T cell
proliferation. In order to block the action of rhTNF-.alpha. added to
fibroblasts, a fivefold excess of rsTNFR-p55h.gamma.3 was sufficient, but
concentrations of a hundred to a thousand times higher were required to
obtain a significant inhibition of T cell activation. This concentration
appears to be required to block membrane-bound TNF-.alpha. on peripheral
blood mononuclear cells as shown by Scatchard analysis. We additionally
show that rsTNFR-p55h.gamma.3 at high concentrations also blocks T cell
activation by dendritic cells. In conclusion rsTNFR-p55h.gamma.3 has a
much higher anti-inflammatory effect than immunosuppressive effect.

CT Medical Descriptors:
*t lymphocyte activation
article
biosynthesis
controlled study
dendritic cell
fibroblast
 human
human cell
human tissue
immunosuppressive treatment
leukocyte
lymphocyte proliferation
mononuclear cell
scatchard plot
Drug Descriptors:
*collagenase: EC, endogenous compound
*prostaglandin e2: EC, endogenous compound
 ***tumor necrosis factor binding protein**

***tumor necrosis factor receptor**
 hybrid protein
 recombinant tumor necrosis factor alpha

L178 ANSWER 26 OF 30 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.
 ACCESSION NUMBER: 96275259 EMBASE
 DOCUMENT NUMBER: 1996275259
 TITLE: Adenoviral gene transfer of a **lymphotoxin . beta.** inhibitor protein versus gene-targeted lymphotoxin-.alpha. knockout: Effect on delayed-type cutaneous hypersensitivity versus abnormal development of peripheral lymphoid tissues in lymphotoxin-.alpha.-deficient mice.
 AUTHOR: Trueb R.M.; Cruz P.D.; Dougherty I.; Brown G.; Van Huffel C.; Valdez-Silva M.; Beutler B.
 CORPORATE SOURCE: Department of Dermatology, University Hospital, Zurich, Switzerland
 SOURCE: Dermatology, (1996) 193/2 (174).
 ISSN: 1018-8665 CODEN: DERAEG
 COUNTRY: Switzerland
 DOCUMENT TYPE: Journal; Conference Article
 FILE SEGMENT: 013 Dermatology and Venereology
 LANGUAGE: English
 CT Medical Descriptors:
 *delayed hypersensitivity: ET, etiology
 *gene targeting
 *gene transfer
 adenovirus
 animal experiment
 animal model
 conference paper
 controlled study
 intravenous drug administration
 lymphocyte migration
 lymphoid organ
 lymphoid tissue
 morphogenesis
 mouse
 nonhuman
 priority journal
 time
 Drug Descriptors:
 ***lymphotoxin**
 immunoglobulin g
 immunoglobulin heavy chain
 inhibitor protein

L178 ANSWER 27 OF 30 WPIDS (C) 2002 THOMSON DERWENT
 ACCESSION NUMBER: 1995-123164 [16] WPIDS
 CROSS REFERENCE: 1997-099528 [09]; 1997-280298 [25]
 DOC. NO. CPI: C1995-056151
 TITLE: Treating tumour necrosis factor-alpha related disease - by admin. of new or known reactively terminated oligo peptide cpd., e.g. for treating inflammation or **infection.**
 DERWENT CLASS: B04
 INVENTOR(S): BLACK, R A; FITZNER, J N; SLEATH, P R
 PATENT ASSIGNEE(S): (IMMV) IMMUNEX CORP
 COUNTRY COUNT: 56
 PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG
WO 9506031	A1	19950302	(199516)	* EN	68
RW: AT BE CH DE DK ES FR GB GR IE IT KE LU MC MW NL OA PT SD SE					
W: AM AT AU BB BG BR BY CA CH CN CZ DE DK ES FI GB GE HU JP KE KG KP					
KR KZ LK LT LU LV MD MG MN MW NL NO NZ PL PT RO RU SD SE SI SK TJ					
TT UA UZ VN					
AU 9475694	A	19950321	(199526)		
NO 9600723	A	19960223	(199619)		
EP 715619	A1	19960612	(199628)	EN	
R: AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE					
FI 9600803	A	19960422	(199637)		
JP 09503201	W	19970331	(199723)		79
EP 715619	A4	19970319	(199731)		
NZ 271893	A	19971124	(199802)		
AU 9850302	A	19980305	(199820)		
AU 687436	B	19980226	(199821)		

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
WO 9506031	A1	WO 1994-US9343	19940819
AU 9475694	A	AU 1994-75694	19940819
NO 9600723	A	WO 1994-US9343	19940819
		NO 1996-723	19960223
EP 715619	A1	EP 1994-925940	19940819
		WO 1994-US9343	19940819
FI 9600803	A	WO 1994-US9343	19940819
		FI 1996-803	19960222
JP 09503201	W	WO 1994-US9343	19940819
		JP 1995-507668	19940819
EP 715619	A4	EP 1994-925940	
NZ 271893	A	NZ 1994-271893	19940819
		WO 1994-US9343	19940819
AU 9850302	A Div ex	AU 1994-75694	19940819
		AU 1998-50302	19980106
AU 687436	B	AU 1994-75694	19940819

FILING DETAILS:

PATENT NO	KIND	PATENT NO
AU 9475694	A Based on	WO 9506031
EP 715619	A1 Based on	WO 9506031
JP 09503201	W Based on	WO 9506031
NZ 271893	A Based on	WO 9506031
AU 687436	B Previous Publ. Based on	AU 9475694 WO 9506031

PRIORITY APPLN. INFO: US 1994-183019 19940118; US 1993-110601
19930823

AB WO 9506031 A UPAB: 19970626

Treatment of a disease characterised by over-prodn. or upregulated prodn. of TNF- alpha comprises admin. of a compsn. contg. a reactively terminated oligopeptide cpd. of formula (I) or its salt and a carrier, where (I) is capable of reducing serum TNF- alpha levels by at least 80% when administered at 24 mg/kg. in a murine model of LPS-induced sepsis syndrome. X-(CHR')m-CHR2-CONH-CHR3CO-(A)n-NHY (I); X = hydroxamic acid,

thiol, phosphoryl or carboxy; m, n = 0-2; R1-R3 = H, alkylene-(cycloalkyl), OR4, SR4, NR4R5, halo, opt. substd. 1-8C alkyl, (1-8C) alkylenearylyl, opt. protected naturally occurring alpha -aminoacid side-chain or -R6-R7; R6 = 1-8C alkylene; R7 = OR4, SR4, NR4R5 or halogen; R4, R5 = H or opt. substd. 1-8C alkyl; Y = H, opt. substd. 1-8C alkyl, alkylene-(cycloalkyl), -R8-COOR9 or -R10-NR11R12; R8, R10 = 1-8C alkylene; R9 = H or 1-8C alkyl; R11, R12 = H or opt. substd. 1-8C alkyl; A = opt. protected alpha -aminoacid residue (same or different if n = 2). Cpds. (I) and their salts are new where; Y = -B-NH2; B = opt. substd. 1-8C alkylene;

USE - (I) are metalloprotease **inhibitors**, esp. useful as **inhibitors** of TNF- alpha converting enzyme (TACE). They thus prevent cleavage of cell-bound TNF- alpha and reduce TNF- alpha levels in serum and tissues. TNF- alpha -related disorders which maybe treated using (I) include: (1) systemic inflammatory response syndrome, e.g. sepsis syndrome (e.g. Gram positive a negative sepsis, culture negative or fungal sepsis, urosepsis, meningococcaemia or neutropenic fever), trauma/haemorrhage, burns, ionising radiation exposure, acute pancreatitis or adult respiratory distress syndrome; (2) reperfusion injury, e.g. post pump syndrome and ischaemia-reperfusion injury; (3) cardiovascular disease, e.g. cardiac stun syndrome, myocardial infarction or congestive heart failure; (4) infectious disease, e.g. HIV infection or neuropathy, meningitis, hepatitis, septic arthritis, peritonitis, pneumonia, epiglottitis, E.coli 0157:H7, haemolytic uraemic syndrome/thrombolytic thrombocytopenic purpura, malaria, dengue haemorrhagic fever, leishmaniasis, leprosy, toxic shock syndrome, streptococcal myositis, gas gangrene, Mycobacterium tuberculosis, M. avium intracellulare, Pneumocystis carinii pneumonia, pelvic inflammatory disease, orchitis/epididymitis, legionella, Lyme disease, influenza A, Epstein-Barr **virus**, **viral**-associated haemaphagocytic syndrome or **viral** encephalitis/aseptic meningitis; (5) obstetrics/gynaecology problems, e.g. premature labour, miscarriage or infertility; (6) inflammatory disease/autoimmunity, e.g. rheumatoid arthritis/seronegative arthropathy, inflammatory bowel disease, systemic lupus erythematosus, iridocyclitis/uveitis/optic neuritis, idiopathic pulmonary fibrosis, systemic vasculitis/Wegener's granulomatosis, sarcoidosis or orchitis/vasectomy **reversal** procedures; (7) allergic/atopic diseases, e.g. asthma, allergic rhinitis, eczema, allergic contact dermatitis, allergic conjunctivitis or hypersensitive pneumonitis; (8) malignancy, e.g. ALL, AML, CML, CLL Hodgkin's disease, non-Hodgkin's lymphoma, MM, Kaposi's sarcoma, colorectal carcinoma, nasopharyngeal carcinoma, malignant histiocytosis or paraneoplastic syndrome/hypercalcaemia of malignancy; (9) transplant problems, e.g. organ transplant rejection or graft- versus host disease; (10) cachexia; (11) congenital disorders, e.g. cystic fibrosis, familial haemophagocytic lymphohistiocytosis or sickle cell anaemia; (12) dermatological disorders, e.g. psoriasis or alopecia; (13) neurological disorders, e.g. multiple sclerosis or migraine headaches; (14) renal disorders, e.g. nephrotic syndrome, haemodialysis problems or ureaemia; (15) toxicity e.g. in OKT3, anti-CD3, cytokine or radiation therapy, chemotherapy or chronic salicylate; or (16) metabolic/idiopathic disorders, e.g. Wilson's disease, haemachromatosis, alpha -1-antitrypsin deficiency, diabetes, Hashimoto's thyroiditis, osteoporosis, hypothalamic-pituitary-adrenal axis evaluation or prim. biliary cirrhosis. Pharmaceutical compsns. for treating TNF- alpha related disorders, conditions or diseases are claimed, contg. the new cpds. (I) and opt. a protein having TNF- alpha binding activity. Typical such proteins are anti-TNF **antibodies** and soluble TNF receptors.

ADVANTAGE - (I) selectively **inhibit** TACE, without affecting TNF- **beta** (**lymphotoxin**) serum levels.
Dwg.0/0

L178 ANSWER 28 OF 30 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 95216133 EMBASE

DOCUMENT NUMBER: 1995216133

TITLE: Cytokine (IL-8, IL-6, TNF-.alpha.) and soluble TNF receptor-I release from human peripheral blood mononuclear cells after respiratory syncytial virus infection.

AUTHOR: Arnold R.; Konig B.; Galatti H.; Werchau H.; Konig W.

CORPORATE SOURCE: Lehrst.Med.Mikrobiologie/Immunologie, Arbeitsgr. Infektabwehrmechanismen, Ruhr-Universitat Bochum, Universitätsstrasse 150,44780 Bochum, Germany

SOURCE: Immunology, (1995) 85/3 (364-372).

ISSN: 0019-2805 CODEN: IMMUAM

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 004 Microbiology

026 Immunology, Serology and Transplantation

LANGUAGE: English

SUMMARY LANGUAGE: English

AB During the initial phase of respiratory syncytial virus (RSV) infection, when a low virus-cell ratio is most probable, signs of inflammation are detectable in the infected respiratory tissue. Therefore we analysed the release of the proinflammatory cytokines interleukin-6 (IL-6), IL-8, tumour necrosis factor-.alpha. (TNF-.alpha.), and the soluble form of the TNF receptor-I (sTNFR-I), from peripheral blood mononuclear cells (PBMC) after exposure to low infectious RSV doses (multiplicity of infection, MOI, 0.001-1) and incubation times of up to 24 hr. The PBMC secreted IL-8 in a time and virus dose-dependent fashion. As was verified by Northern blot analysis, the increased IL-8 secretion rate was accompanied by an enhanced IL-8 mRNA steady-state level. The infection of the PBMC after 4 hr post-RSV exposure was verified by detection of RSV(SH) genomic RNA and mRNA after reverse transcription and polymerase chain reaction (PCR) amplification. In addition, after 24 hr post-infection we determined the percentage of infected cells by specific immunofluorescence using monoclonal antibodies directed against the F- and G-proteins. After exposure of PBMC to inactivated RSV, we observed only RSV(SH) genomic RNA and a reduced IL-8 release. Thus, even the binding and/or phagocytosis of RSV by PBMC induced an IL-8 synthesis to some extent. Following an incubation time of 24 hr, PBMC exposed to small RSV doses synthesized and released high amounts of IL-6 into the cell supernatant. In contrast, only low amounts of TNF-.alpha. were released from PBMC. In addition to the release of the proinflammatory cytokines, an enhanced level of the sTNFR-I was measured in the cell supernatants at a MOI of 0.1. However, there was no correlation between TNFR-I membrane expression and cell supernatant concentration. Co-culture experiments performed with PBMC and human epithelial cells (A549) revealed that the enhanced IL-8 secretion profile observed in the co-culture was partially dependent on the cytokines TNF-.alpha., IL-1.beta. and TNF-.beta./lymphotoxin released by the cells themselves.

CT Medical Descriptors:

*respiratory syncytial pneumovirus

*virus infection

article

controlled study

epithelium cell

human

human cell

immunofluorescence

mononuclear cell

priority journal

reverse transcription polymerase chain reaction
 virus concentration
 virus inactivation
 Drug Descriptors:

***tumor necrosis factor receptor**
 *cytokine: EC, endogenous compound
 *interleukin 6: EC, endogenous compound
 *interleukin 8: EC, endogenous compound
 *messenger rna: EC, endogenous compound
 *tumor necrosis factor alpha: EC, endogenous compound
 *virus rna: EC, endogenous compound
monoclonal antibody

L178 ANSWER 29 OF 30 EMBASE COPYRIGHT 2002 ELSEVIER SCI. B.V.

ACCESSION NUMBER: 94315460 EMBASE

DOCUMENT NUMBER: 1994315460

TITLE: Functional activities of receptors for tumor necrosis factor-.alpha. on human vascular endothelial cells.

AUTHOR: Paleolog E.M.; Delasalle S.-A.J.; Buurman W.A.; Feldmann M.

CORPORATE SOURCE: Sunley Division, Kennedy Institute of Rheumatology, 1 Lurgan Ave, London W6 8LW, United Kingdom

SOURCE: Blood, (1994) 84/8 (2578-2590).

ISSN: 0006-4971 CODEN: BLOOAW

COUNTRY: United States

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 025 Hematology
 026 Immunology, Serology and Transplantation
 029 Clinical Biochemistry
 030 Pharmacology
 037 Drug Literature Index

LANGUAGE: English

SUMMARY LANGUAGE: English

AB Tumor necrosis factor-.alpha. (TNF-.alpha.) plays a critical role in the control of endothelial cell function and hence in regulating traffic of circulating cells into tissues in vivo. Stimulation of endothelial cells in vitro by TNF-.alpha. increases the surface expression of leukocyte adhesion molecules, enhances cytokine production, and induces tissue factor procoagulant activity. In the present study, we have examined the relative roles of the two cell surface receptors for TNF-.alpha. (p55 and p75) on endothelial cells, using antibodies with both agonistic and antagonistic activities. We report that anti-p55 receptor agonistic antibody Htr-9 induces the expression of tissue factor antigen and the release of interleukin-8 (IL-8) and granulocyte-macrophage colony-stimulating factor (GM-CSF). In contrast, there is very little or no activation of endothelial cell responses by an anti-p75 agonist. TNF-.alpha.- induced expression of tissue factor and adhesion molecules, and release of IL-8 and GM-CSF, are decreased by antibodies with antagonistic activities for either receptor, although the effect of anti-p55 antibodies is markedly greater than that of anti-p75 antibodies. The responses of endothelial cells to **lymphotoxin**/TNF-.**beta.** are significantly decreased by anti-p55 antagonists alone. Our data suggest that endothelial cell responses to TNF-.alpha., such as expression of tissue factor and adhesion molecules for mononuclear cells, which may be important in the pathogenesis of atherosclerosis, are mediated predominantly, but not exclusively, by the p55 TNF receptor.

CT Medical Descriptors:

*receptor binding
 article
 cell proliferation
 concentration response

controlled study
 endothelium cell
 human
 human cell
 priority journal
 vascular endothelium
 Drug Descriptors:
 *cytokine receptor
 *cell adhesion molecule: EC, endogenous compound
 *cytokine: EC, endogenous compound
 *receptor antibody: PD, pharmacology
 *receptor protein: EC, endogenous compound
 *recombinant tumor necrosis factor alpha: CB, drug combination
 *recombinant tumor necrosis factor alpha: PD, pharmacology
 *recombinant tumor necrosis factor alpha: DO, drug dose
 *thromboplastin: EC, endogenous compound
 basic fibroblast growth factor
 endothelial leukocyte adhesion molecule 1
 granulocyte macrophage colony stimulating factor: EC, endogenous compound
 indometacin
 intercellular adhesion molecule 1: EC, endogenous compound
 interleukin 6: EC, endogenous compound
 interleukin 8: EC, endogenous compound
 lymphotoxin: PD, pharmacology
 lymphotoxin: CB, drug combination
 lymphotoxin: DO, drug dose
 monoclonal antibody
 monoclonal antibody h 398: CB, drug combination
 monoclonal antibody h 398: PD, pharmacology
 monoclonal antibody htr 9: DO, drug dose
 monoclonal antibody htr 9: PD, pharmacology
 monoclonal antibody htr 9: CB, drug combination
 monoclonal antibody mr2 1: PD, pharmacology
 monoclonal antibody mr2 1: CB, drug combination
 monoclonal antibody utr 1: CB, drug combination
 monoclonal antibody utr 1: PD, pharmacology
 protein p 55: EC, endogenous compound
 vascular cell adhesion molecule 1: EC, endogenous compound
 unclassified drug

L178 ANSWER 30 OF 30 MEDLINE DUPLICATE 6
 ACCESSION NUMBER: 89358132 MEDLINE
 DOCUMENT NUMBER: 89358132 PubMed ID: 2548953
 TITLE: Comparative study on the antiviral activity of tumor
 necrosis factor (TNF)-alpha, **lymphotoxin**/TNF-
beta, and IL-1 in WISH cells.
 AUTHOR: Ruggiero V; Antonelli G; Gentile M; Conciatori G; Dianzani
 F
 CORPORATE SOURCE: Institute of Virology, La Sapienza University, Rome, Italy.
 SOURCE: IMMUNOLOGY LETTERS, (1989 May) 21 (2) 165-9.
 Journal code: 7910006. ISSN: 0165-2478.
 PUB. COUNTRY: Netherlands
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 198910
 ENTRY DATE: Entered STN: 19900309
 Last Updated on STN: 19900309
 Entered Medline: 19891011
 AB We find that pretreatment of WISH cells with tumor necrosis factor

(TNF)-alpha, IL-1, and **lymphotoxin/TNF-beta** is capable of inducing an antiviral state in these cells, thereby protecting them from vesicular stomatitis virus cytopathic effect. Furthermore, we find that such a treatment causes a major inhibition of the synthesis of VSV proteins, as analyzed by SDS-PAGE. The 2-5A synthetase activity is also increased by treating the cells with doses of cytokines effective in antiviral protection. In this cell system, inclusion of polyclonal antibodies to IFN-beta during cytokine pretreatment abrogates the antiviral state elicited by the above cytokines, while antibodies to IFN-beta 2/IL-6 fail to abolish the cytokine-induced antiviral effects.

CT Check Tags: Comparative Study; Human; Support, Non-U.S. Gov't

2',5'-Oligoadenylate Synthetase: AN, analysis

2',5'-Oligoadenylate Synthetase: ME, metabolism

Cell Line

Cells, Cultured

Electrophoresis, Polyacrylamide Gel

*Interleukin-1: PD, pharmacology

***Lymphotoxin: PD, pharmacology**

*Tumor Necrosis Factor: PD, pharmacology

***Vesicular stomatitis-Indiana virus: DE, drug effects**

Viral Interference

*Viral Proteins: ME, metabolism